VADE MECUM:

OR, A

COMPANION

FORA

CHIRVRGION.

FITTED

For Sea, or Land; Peace, or War.

Shewing

The Use of his Instruments, and Virtues of Medicines Simple and Compound most in use, and how to make them up after the best Method.

With the manner of making Reports to a Magistrate, or Coroner's Inquest. A Treatise of Bleeding at the Nose, and directions for Bleeding, Purging, Vomiting, &c.

By Thomas Brugis, Doctor in Physick.

Being amended, and augmented with an Instiflution of Physick, and seven New Treatises, viz. of Tumors, Wounds, Ukers, Fractures, Dislocations, Lues Venerea, Anatomy.

Whereto

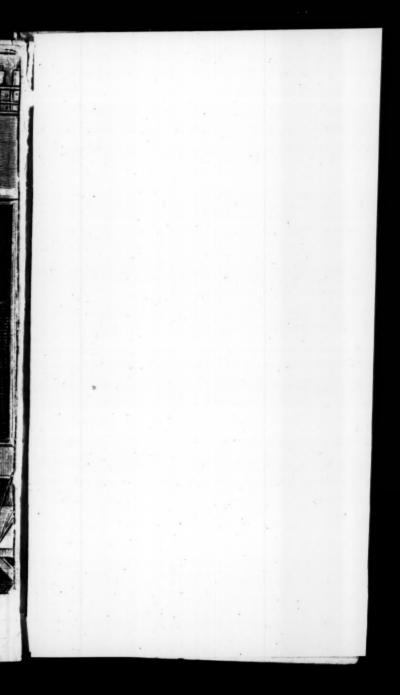
Is also added, (by way of Supplement,) another New Discourse called Chirurgus Methodicus, or, The Young Chirurgion's Conductor through the Labyrinth of the most difficult Cures occurring in his whole Art, and whereby he is distinguished from Empyricks and Quackfalvers.

By ELLIS PRAT. M. D.

The Seventh Coition.

London, Printed for B. T. and T. S. and Sold by Fr. Hubbert, next the Crown Tayern in Duck-lane. 1689.







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TO

His Ever Honoured Friend,

Sir WILLIAM JUXON,

OF

Little-Compton in the County of Gloucester, Kt. and Bar.

SIR,

Have here presum'd to present this Medico-Chirurgic Tract to You: 'Tis but mean, Sir; yet when You shall see 'tis intended for Beginners, I'm metaphysically assured of Your favourable acceptance, it being an abstract of the Doctrine of Hippocrates and Galen, and the best Writers to our A 2 time

Epistle Dedicatory.

time; so I must apologize for my self in the words of the great Seneca to his Lucilius, De alienis liberalis sui; quare autem aliena dixi? quæcunque bene dicta sunt ab ullo, mea sunt; and ever remain,

Honoured Sir,

Your very humble Servant,

E. PRAT.

Se- To the Young ARTIST By way of Institution.

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To

Hat thou may'st be the better enabled to comprehend what's in the Body of this Book, which is wholly practical, I defire thee first to reade this theoretical System.

First then know, thou intendest to employ thy felf in part of an Art, whose Author, Neceffity and Subject, enough commend it; i.e. Medicine, so call'd, a medendo; its Author is that of every good Gift, GOD; whom Mofes and Syrach tell us, made Plants and Medicines out of the earth, and the Physician to be honor'd. Experience brought it first in use, to which daily Necessity gave occasion; probably first practis'd among the Egyptians, fays the great Heurnius, for we find its chief axioms to come from them; as to be feen in Hipp. 1. Aph. 22. and Arift. 3. Polit. 11. and Herodotus, in Euterpe, tells us, particular difeafes among them, had their particular Phyficians; fo for the head, teeth, eyes, oc. and their Land is most fruitfull in Medicines. Now Experience first invented the dietetic part, Hip ..

Hipp. de Vet. Med. for men changing dyet, when fick to recover'd; which Herodotus fays the Egyptians did, who used every month to purge three days, thinking all difeases proceeded from dyet; for their air never chang'd. The Grecians make Apollo the Inventer, and Asculapius the Amplifier; who was esteem'd a god, because he call'd to life Hippoclytus and Androgeus Son of Minois, but I suppose 'twas because he prolong'd their Lives by his Art. Pliny will have it Chyron and Centaur, whence centaury fo call'd. Æsculapius's two sons, Podalyrius and Machaon, in the Trojan War, practis'd rather Chirurgery, than Dyet or Pharmacy. Whatever Mortal was the Author, we are most infinitely oblig'd to the Divine Hippocrates, the first Writer, for our knowledge therein. Next Galen, who expounded him, distinguish'd things confus'd, fupply'd what was wanting, and may deservedly be held to have completed the Art; for what hath fince been writ to purpose, is drawn from their Ocean. 'Tis defin'd by Hipp. l. de flatib. additio & sub-tractio; because diseases come from repletion or inanition, and so are cur'd, by subtracting what's redundant, and adding what's desicient: its subject for Theory and Practice, the macro and microcosm. 'Tis parted into three Sects.

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1. Empirics, who flight Reason, and only build upon use, they enquire only into the fymptoms; they try medicines, which they call autopsia, i.e. self-seeing, or learn them tryed from others, which is call'd hiftory; or what soever they find in Books: then they use them by passing from like to like; either from disease to disease, as in erysipelas and berpes; or from remedy to remedy, as in me spilo and citoneo; or from part to part, as brachium and tibia, &c. Remedies, they say, are fortuita imitatoria, or consulto adhibita; they allow only of evident Reason; Acron Agrigentinus was the first of this Sect; who had many followers; and of which there are too many at this day, fuch as the Pseudochymists.

2. Methodics, these mind neither part affected, cause, age, time, region, faculties, habit, nor custom of the sick, only the disease; wherein they consider'd communitates, i. common notions, whereof two are simple, one mixt; they'll have every disease to be either bound or loose, or compound of both; the bound they loosened, and the loose they bound; in mixt they helpt what urged most and so they said the whole Art might be learnt in six months; communities are either passive, as what's bound, loos'd, or active, as to hind, loose; or temporal, as the beginning, augment, state, declination. To heal, is to remove A support

what's strange, which is either extern or intern; that's so simple; that is so either in place, magnitude, or defect. Themison began this Sect, whom Juvenal, speaking of the incommodities of old Age, mentions, when he says they are as many attending it.

Quot Themison agres autumno occiderit uno.

Thessalus Trallianus finisht it, who, in his Monument in the Appian way at Rome, would

be call'd Iatronices, i. medicorum victor.

3. Dogmatics, or Rationals; these inquir'd into all abovenam'd; Hippocrates was the Author of this, and Galen completed it. And this is to be chiefly follow'd, being compos'd of reason and experience: of this are 2 parts, Hygiene, which shews how to preserve health; and Therapeutic, which cures diseases. But these being not to be accomplish'd without knowledge of bodies and diseases, three other were added, Physiologia, which unfolds the natural constitutions of bodies: Pathologia, which looks to the nature, cause and symproms of diseases. Semeiotica, which difcourses of past, present and future signs. Hygiene confiders fix non-natural things, with their various use in sick and sound, old and young, &c. Therapeia teaches how to cure diseases, by Diet, Pharmacy or Chirurgery. Now

Now this Book being chiefly composed for the young Students in the last, I shall lay down a few Rules for the easier attaining to

the knowledge thereof.

Know then, with our famous Dr. Read, It define Chyrurgery, a branch of the therapeutical part of Medicine, whereby divers diseases of mans body are cured by manual operation. The first words contain the genus, the last, i.e. by manual operation the differentia, for of these two all definitions consist, according to Philosophers. It differs from Dyet and Pharmacy, in that they act not upon their subject by manual operation. It's etymology's obvious from chier, manus, and ergon, opus; and though formerly mean Mechanics have been call'd Chirurgions, yet now tis by excellence attributed only to those who work upon that divine subject, the body of man.

Now the means to attain this Art, is by acquiring a competent knowledge in the forenamed parts of Medicine. The first where of is Physiology, no one can cure aright, that does not well know the constitution of the body he has in hand; which is properly natural Philosophy it felf, translated to a medicinal use: for ubi desinit physicus, ibi incipit medicus; but the Natural Philosopher ends not but in Physiology and Pathology; so the study of Medicine is to begin with the Semeiotica,

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or Therapeia. Now in Physiology are to be consider'd, Elements, Temperaments, Parts, Humors, Spirits, Faculties, Actions; of which o in order.

PHYSIOLOGIA.

An Element is a simple body, out of which a mixt is compos'd, and into which 'tis lastly resolv'd; these are four, Fire, Air, Water, Earth, which Hippocrates l. natur. hum. call'd bot, cold, moift, dry, from their qualities.

From these temper'd among themselves, rifes Ovid's concordia discors, of one body, which, according to the quality of mixtion, obtains such and such a nature; whence 9 differences of temperaments, 8 intemperate, 4 simple, hot, cold, &c. 4 compound, hot and moist, hot and dry, cold and moist, cold and dry, 1. temperate either simply so, or according to weight, when the qualities are equal, which is rather Utopian than real, or at least but momentany: or according to justice; wherein is a moderation of Elements, agreeable to the nature of Man, Beaft, Plant, Oc. of this are certain limits, quos ultra citraque nequit consistere sanum. Tis divided into Sanguin, bilious, phlegmatic, melancholic, and so u analogous to the Elements and Humors, cal- I led fecond Elements; fex and age follow fe temper ; A

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temper; males commonly hotter than females; childhood to 14 years, hot and moift; adolescency to 25, the best temper; manhood, decays to old age, growing cold and.

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Now that all things live by an innate heat, and that it might penetrate all the parts of the body, 'tis resident in the spirits, whose definition (whatever Argenterius fays) is this; A spirit is an airy, subtile, clear body like a vapor; the feat and bond of the faculties. and the first instrument of the functions; whereof the basis is humidum radicale. Some make three Spirits: 1. Vital, fent from the heart by the arteries to all parts. 2. Natural, of which the vital is begot, by inspiration of air: of this Galen doubted, as included in the vital, but the spirits of aliments ought not to be denied to the bloud, whence hotter bloud from wine than lettice. 3. Animal, made of the vital elaborated in plexu reteformi, fent out by the nerves for fense and motion, and to irradiate the parts; fome hold only the first and last, some the last.

A part is perfectly defined by the great Fernelius, a body adhering to the whole, endued with common life, ordained for its function and use. So hair, nails, fat, marrow, &c. nor cal- Hippocrates's humors and spirits, strictly delow ferve not the name of parts. Of Parts, fee

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By Humor understand not, with Philosophers, a quality opposite to driness, but a body, yet not any, for chyle, feed, milk, fweat, urine, &c. are not properly humors, but only the alimentary with their excrements: 'tis rashness to deny them, seeing they affect us in quantity, quality, &c. they're begot of the mixtion of aliments, four in gene-1. Natural, going under the name of bloud, whose hot, cold, thick, thin parts, are call'd choler, phlegm, melancholy; ferum's their vehicle, expell'd by urine, sweat, tears, Pure bloud makes men blithe, florid, prudent, &c. but if it redound, foolish, &c. 2. Excrementitious are to be voided by their proper places; Phlegm is, as it were, nutriment half cocted, fo is to be alter'd, but that in the intestines unconcocted, is absterg'd by bile, and voided by siege, that that distills from the brain is mucus: this makes men flow, fleepy, &c. Bile hath its feat in the gall bladder, to purge the bloud from jaundise; and irritate the belly, and absterge phlegm; it makes men angry, quick wit, &c. Melancholy, fax fanguinis, black, seated in the fpleen; if not voided by hemorrhoids, &c. the whole body waxes black; it makes deceitfull, fad, envious, timidous, &c. but mixt with bloud or bile, constant and ingenious; it helps concoction, Gal. 5, de usu part. being acid

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acid and contracting, and by its acerbiy caufes hunger; Soranus fays these domineer in the body at certain times, bloud in the morn, bile at noon, melancholy in the evening, phlegm by night. Bloud natural is simply fo call'd, but ill-affected, bilious, pituitous, melancholic, made so by putrefaction, adultion, refrigeration, or obstruction. And when it exceeds in quality or quantity, 'tis 3. Preternatural, of which Phlegm's fourfold; fweet, often spit out; acid, less cold than glassy, more than fweet; glaffy, very cold, cleaving to the intestines, causes torments; at length becomes plastrous, whence tophi in articulis, falt, from putrefaction, or mixtion of falt Bile fourfold, vitelline burnt in the veins; Porraceous, begot in the stomach; Aruginous; woady, sometimes begot in ventriculo, sometimes in venis; all called from their likeness. There is but one species of atra bilis, very hurtfull, sharp, fomenting the earth like vinegar, caus'd of adustion or putrefaction of other excrements: vitelline bile turns to porraceous, eruginous, glasteous, at the last to black; 'tis made also of the bloud's thicker part, as bile of its thinner; it cannot be made of phlegm, unless falt.

The Soul's the form, and cause of all operations, by which 'tis known, else, its essence would be hid. Galen calls that temperies, by

which

which 'tis conserv'd intemperie fugit è corpore; but temperies and innate heat, are only the causa sine qua, it stays not to operate. Faculty is the cause from which action proceeds, or the natural power of the Soul ordained to work by it felf, from which action in active motion proceeds; operation is that which is performed by action; as flesh, bloud, &c. action indeed is operation, as fanguification, &c. not è contra, as flesh is the operation, not action of nature: faculty and action is threefold, 1. Natural, even in Plants and Brutes, called the concupifcible, and altering, diffused in every part from the liver, has 4 subservient, attracting, reteining, concocting, expelling; fome common parts have faculties, as stomach, &c. for themselves and others, for which they use fibres, but coction is performed by heat and faculty. 2. Vital, from the heart fending life; Plato called it irascible. 5. Animal from the brain, by nerves, fends fense and motion.

Now actions are to be confidered in health and fickness; when unhurt and hurt they shew them; and for prediction. Action is never hurt in natural organs, where the faculty's insite, but a part is affected; but animal organs have the principle of sense and motion elsewhere, so action may perish the part unhurt. Natural faculty's action is triple,

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triple, 1. Nutrition, the turning of aliment into the substance of the living weight, which is done by a triple coction, 1. in the stomach chylifying, which is helpt by the liver, other parts heat; 'tis the feat of hunger, because of an exquisite sense, for hunger is a pain in defiring meat; it is nourished by bloud, not chyle, the feces mixt with chyle are thrust out and tinctur'd with bile; urine is an excrement of this coction, for every one hath two, thin and thick; the chyle cocted is detruded by pilorus to the intestines: the meseraic veins attract what's ferviceable, and then 'tis carried to the liver, and there turned to bloud; and this is the 2d coction and sends to all parts of the body, as in Anatomy, which assimilate it, which is perfect nourishment: thus in the veins and arteries is a nameless humor, not much unlike bloud, bedewing the parts of substance, it is called ros, cleaving cambium, perfectly affimilated gluten, and these are the Arabians secundary humors. Auction, which is an amplifying a body in length, breadth and depth, till it acquire its full magnitude; but calor and humor decrease till the weight dies.

Generation is a work of the natural faculty, for propagation of species, or a motion to a new substance; when Animals are not perpetual, what they cannot obtain in individuals, they obtain in species.

Now generation of perfect Creatures, is of the males feed, and the females menstruous bloud, and consists of alteration, giving the fubstance and formation, con-

junction of parts, form, fite, &c.

Seeds are join'd in the womb, whence follows conception; then the plastic faculty makes the 3 membranes involving the fetus, and forms all the parts together, for they want one anothers help; neither are they inform'd first with the vegetative soul, then the fenfitive, and lastly the rational; for they are organs of all: and now having a house prepar'd, it begins to be nourish'd; about the 3d month it moves, before it has neither foul, life nor motion; 'tis not nourish'd by the mouth, fay fome, but draws the maternal bloud by the umbilical veffels, which are a vein, two arteries, and our achos, by which 'tis thought to void urine; others fay 'tis nourish'd at the mouth by chile, till it grows bigger, and wants room and air, then by kicking breaks the membranes, &c. before the 7th month its birth is not vital, in the 7th it may, if ftrong; else 'tis defer'd till the 9th, 10th, or 11th; not vital in the 8th month out of Egypt.

The vital faculty's a middle betwixt natural and animal; 'tis in the heart, hither is refer'd pulsend a respiration, of which in Ana-The

tomy.

The animal virtue is the principle of motion, fenf: understanding, because join'd to the phansie, else 'tis not an organical faculty; cis triple, 1. Senfitive, the outer fenfes are, 1. feeing, whose object is any thing visible, color or light; its organ is the eye, chrystalline humor, other parts are only fubservient. 2. hearing's object is found, its inner organ the membrane full of air, outward water, or air. 3. Smelling is objects odor, the middle air and water, organ's the nofe. 4. tast's object is sapor, organ lingua; touching's objects are the first and second qualities, organ, membranes and nerves. The inner fense or principal faculty is triple, phansie, reasoning, memory, the common fense is as it were the others centre, and their Judge, it diftinguishing between color, found and other objects; phantasie apprehends, and diftinguishes all objects and forms offer'd by the outer fenles; by reasoning we meditate of conceived species: memory conserves things known. To the outward fenfes is refer'd fleeping and waking; fleep is caused of a benign vapor, obstructing part of the spirit's course; not all for they breathe, and fometime walk; 'tis caused also by retraction of the spirits toward the heart, by the fenfes organs; whence finging, music, labor, talk, earnest reading, cause fleep; narcotics, by flaying the spirits, pain, labor.

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labor, waking, by abfuming them, circular motions distract, coctions, frictions, lotiones pedum revoke, binders, obstructers, darkness, night, silence, bring a numness upon them.

The loco-motive faculty is in the muscles, influenc'd from this spirit : of dreams, &c. in Philosophy. And this is the economy of our Body, according to the doctrine of the Ancients, I know the Moderns, as Rolfinccius, Cartefins, Regins, Silvins, and others decree otherwise, as to the doctrine of chilification, fanguification, nutrition, generation, motion, 1espiration, sensation, &c. but whether either be receiv'd, yet the old method of healing is not chang'd by the mortification of plethora, cacochymia, or any cause; but the same curatery, preservatory and vital indications remain still, as Rolfinceius hath strongly infinuated; and his defender the most excellent Moebius, elegantly profecutes, and largely: Therefore, fays the Learned Fo. Daniel Horstius, we owe God thanks, that the method of curing grows famous daily, and is still the same, not withstanding the disagreeing of so many new physical and anatomical Opinions. Do not, I pray, the Aristotelians and Democritics, sharply contend among themselves about Elements and Atoms? and yet both heal the same way, as plainly appears from what Leichnerus hath elegantly delivered Paragr. 55. and after ex 4 de Atomis. HY-

HYGIENE.

Next are things not natural to be consider'd, so called, because they are not in the body secundum naturam, as the faculties, nor prater naturam, as difeafes, but in a mid way between both, for dyet confisting in their use, being well used they help, if not they hurt, by altering the body; for they defend both, and prevent diseases, therefore see their use in both; they are 6. the first is Air, confider'd in fubstance, quality, occasion and use; air pure and clear, the grounds east and north, high places best, hot augments bile, causes fevers, &c. cold distillations, hinders transpiration; promotes infirm coction, but hurts infirm bodies. Dry illustrates the spirits, hinders purrefaction; moist, hastens purrefaction; in diseases it must be of a contrary quality, by art or nature; light is for mild difeases, dark for implacid, &c. in long diseases 'tis good to change Countries, Gal. 5. Meth. fent those troubled with tabes to Tabias, a dry Air, nigh Naples, where was plenty of dry herbs, so that milk was very proper in the cure. The Moon changes the Air with its quarters, the first like Spring, temperate; the 2d Summer, hot and dry; the 3d Autunm, uncertain; the 4th Winter, cold and moist.

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Motion, comprehends all exercise, whence three commodities, hardness of instruments from mutual attrition; increase of insite heat, and vehement motion of spirits, strength of actions and health, follow hardness of organs; etraction, coction, distribution, nonrishment, expulsion, follows increase of heat; for pasfages are loofer, humors melted, folid parts formed; and a strong spirit purges passages, expels excrements; fo Hippocrates fays right, To study health, is to be quick to labor. cife till the body be florid, sweat begin to flow, and motion nimbler; hot, dry bodies, less than cold, moist; let labor precede mest, Hip. 6. Epid. 4. Aph. ult. excrements of belly and bladder evacuated; who cannot exercife may use frictions; there are divers kinds of exercise, Tenis, &c. for the whole body; riding the intestines, orc., walking and running the thighs, &c. reading, finging, the lungs; laftly, quiet may help and hurt, as well as exercise.

Meat and drink, call'd aliments, repair our body; they must not be too unlike our body, as Stones, & c. but animated, as Plants, or Animals, or coming of them, as milk, wine, & c. tis either simple, as flesh; or medicinal, as vegetables; which respect the cause of the disease; in fielh the quality is not minded, but only the substance. Now in aliment mind

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the substance, or goodness, or quality, quantity, custom, delight, order, time, region,

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As for substance, it must breed good juice fo Birds before Beafts, younger before older; for quality, hot heat us, &c. health must be preferv'd by its like, a disease mended by its contrary: fo must refist the disease by their quality, but by accident; for a difeafe doth not indicate dyet, but a remedy; therefore to young and feverish, a moist dyet, 1 Aph. 16. let it be like the temper, age, region, feafon, unless the temper be to be reduc'd to its contrary; for in diseases it ought to be contrary; as moist and cold, in fevers, chiefly if the temper be the fame, as a fever in a bilious temper; fo full of crude humors must use attenuaters.

For quantity, it must not be more than nature requires, lest it caufe a disease; 2 Aph. 17. and to study health, is not to be cloy'd with meats, 6 Epid. Aph. 20. Repletion's the parent of plethora, and cacochymia, a mean conferves health. In acute difeafes, the lefs or meat; 1. Prison, or thin broth, 1 Aph. 7. in wine, thronic not so sparing; when it best to err cinal, with the most, Aph. 5. yet Hippocrates doth of the lot absolutely persuade a full dyet; for aded, Aph. 30. & Gal. Comment. 52. Write what mind receds hurt, what's wanting caffer amended.

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ed, &c. in great pain and acute disease not good to give meat; strength is always to be ey'd, lest it fail, or be opprest, I Aph. 9. for this prescribes the form, quantity and manner of dyet; if strong, nourish well; if not, sparingly. In the fick 'tis to be compar'd with the difease and cause; for a great difease bears not meat, lest nature be call'd from its coction. In chronic a mean does well; in acute towards the state specially; the sharper the thinner dyet, when the symptoms are more grievous. Future strength is also to be ey'd, yet 'tis fafer to decline to excess, than defect. If the strength be exhausted with watching great evacuation, a fuller dyet; but if by oppression of humors, with vehemency of symptoms, lessen it: for strength never urges, unless wasted; custom is never to be neglected, in fick give a grain of allowance to custom; for sudden changes are dangerous, 6. Epid. 3. 21. For Order

Ut vites pænam de potibus incipe cænam.

Which is to be understood of broths, &c. not strong wine, &c. which hurting the nervous parts, breed gouts, and sluctuosities, then drink at last to mix all; so

Incipe cum succo, succo finire memento.

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for time, take not meats unfeafonably, nor before former coction. In diseases give not in the Paroxism, 1. Aph. 11. 18. unless the Fever be caus'd of want, labor, &c. sharp juices. Eat sparingly in a hot Country; fo youth eats more than old, Aph. 13. 14. to youth a moist dyet, 1. Aph. 16. but if hot and dry, cold dyer; boil'd rather than roaft; fmall drink. In strong bodies, supper larger than dinner, for fleep concocts, watching digests; let him that's subject to catarrhs, sup sparingly. If there be want or corruption, eat often and much; if Paroxism, or Symptom hinder not. If weak, and full of humors, eat feldom and little; with want of humors, and malignity, a little, and often.

Drink appeales thirst, and is the vehicle of meat, if only water or small beer, for strong bodies it may be liberal, else sparing and often; who eat much, drink much, contra. For water, sountains or river are best; wine and strong liquors, hurt bilious, hot natures; breed gouts, and scurvy diseases; for bread best leaven'd nourishes most, rye and barley less, but deterge: fresh fish beget phlegm; are easily corrupted; falt of bad juice; green fruits beget thin, serous juices,

temper humors, moisten.

Sleep concocts meat and humors, corrects the diseases of the mind, moistens, 6. Epid.

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feet. 5. aph. 10. labor's for the joints and flesh meat and fleep for the viscera, longer than 7, or 8 hours gathers excrements; best by night, hurts those whose viscera are inflam'd, chiefly in principio, bloud flowing to the inward parts, 6. Epid. seet. 5. aph. 29. and in the beginning of Fever fits, for when there's riger, horror, or coldness of parts, heat and humors are drawn inward, when 'tis better by watching to be drawn outward, else crudities are multiply'd, and hard to dissolve; for bloud is cauried outward by watching; 6. Epid. seet. 4. aph. 12. sleep on one fide; watching must be moderate too, for too much breeds crudities.

Passions are turbulent and stir'd motions of the mind, therefore much of use in the body, the Stoicks would have a wise man without passion, but the Peripatetics allow a mean, as anger in phlegmy bodies: fear contracts the spirits, anger stirs heat; in bashfulness the bloud first moves inwards, but quickly returns again outward; if not, 'tis fear: some have died suddenly with fear, no body of anger; for by it heat's not cool'd, nor strength dissolv'd, or spirit recall'd, as in fear; pusilanimous have died of joy, the faculties being dissolv'd, and so of shame; therefore the passions are not to be neglected, but corrected, for they shew diseases present or suture. If

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fear and sadness hold long, 'tis melancholy, Aph. 25. 1.6. & 6. Epid. sect. 828. and we may so know whether they come without cause, or not. Excreta & retenta help, if what's to be evacuated be so contra; these are excrements of the belly, urine, insensible transpiration, courses, seed, hemorrhoids, & c. for a farewel to this, remember that saying of Hippocrates, labor, cibus, sommus, venus, ommia mediocria.

PATHOLOGIA.

A disease is a preternatural affection, hurting first the actions, of which are three kinds, similar, organic, and commune; whose integrity is required in health, but one failing in sickness.

A distemper is a similar disease, and is either equal in all parts, and without pain, as in a hectic fever, or inequal, as anasarca, tumors, &c. and is with or without matter, simple or compound, as is Physiology.

Organic in ill conformation is fourfold; composition, number, magnitude, site; in composition are three species, vitiated sigure, as a strait part made crooked, & contra, vitiated superficies, as a smooth one made rough, & contra, cavity too much dilated by anastomosis, & cor bound by obstruction, compres-

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fion, contraction, subsidentia. A disease in number, is by defect or excess, as 6th finger worms, &c. In magnitude apart, bigger or lesser. In site, when they possess not their

natural place, as in bernia's, &c.

A difease commune to similar and organic parts, is call'd solution of unity; of which in wounds, &c. diseases of matter are organic, as softness, hardness of parts, &c. diseases of form are similar; the temper and figure of a part being whole, action cannot be hurt by the only sault of the form; agents by their whole substance beget ordinary diseases, as a malignant ulcer is a solution of continuity, but malignity is the quality of the cause.

A cause is a preternatural affection, producing a disease: in generation 'tis whatsoever conduces any thing to the begetting a difease; and so it contains causa sine qua non; it hurts not the function first but by a disease; 'tis fourfold, material, formal, final, and efficent, of which last only here, 'tis that by which a thing is caus'd, so the subject be capable; whence in the same place all are not infected; tis per se,apt to produce the effect, as heat of the Sun, causes a Fever, by hap cold obstructing the pores: 'tis intern and extern; this is without as non-naturals, &c. call'd procatharie; that's within the body, as plethora, &c. call'd antecede et proca aret. caufes not a difeafe.

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case, unless in a body dispos'd, tis otherwise call'd manifest, for 'tis always evident, none contra, as a Sword is the evident outer cause of a wound, but not the procatarest. because it requires not a disposition. The antecedent is the very morbous disposition found in humoral diseases, and may oft be prevented by remedies, that it hurt not; when it actually hurts, 'tis call'd conjuncta, or continens quam posita, ponitur morbus, sublata tollitur; 'tis ont as in humorals: always immediate non contra, as a Sword's the immediate cause of a wound, not the continent; plenty of meat, is causa procatarest. plethora antecedens, blood slowing to the side continens.

Now the evident are contingent, as a Sword, &c. or necessary, as 6 non-naturals to which add contagion, &c. the antecedent offends in quantity, or 1st and 2d quality; to which add putrefaction! quantity's (if not in defect, as in a hectic's) call'd plethora, quality, cachochymia. Plethora's a proportional redundance of all humors, or blood alone; ad vasa distending, or ad vires oppressing them, caus'd by hot aliments, &c. Cacochymia, by fault of coction, or 6 non-naturals,

A hot distemper's caus'd by nearness to

hot things, stay i'th' Sun, obstruction, motion of body and mind, &c. col'd e contra;

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fo dry and moist from contr ries; compound have compound causes; Humor's the cause of a material distemper. A formal depends on inward putrefaction, or from the air, caus'd by contact, foment, as in lues venerea, or at distance. In organic disseases figure is vitiated in the womb, by fantasie or error of the midwife, or after, from a fall, error of Surgery, &c. Passages are dilated by emollients, eroders, fulness, in anastomosis, diaresis, &c. streined by obstructers, carancula; tumor growing to ligaments, call'd confripatio, vacuation of humors subsidentia, or aster a wound, & c. coalescentia. Magnitude's increas'd by humor, tumor, or bond broke, referr'd to fite, diminish'd è contra. Solution of unity's caused f. om an inciding, biting cause, &c.

Accidental differences are necessary to be known by their causes, subjects, &c. A disease is caus'd by consent, by communicating morbific matter, diadosis, i. distribution, critically or symptomatically, or metastasis, i. translation to another part, or intercepting humors, &c. as in the Palsie the spirits. If the disposition be constant from symptoms, 'tis call'd deuteropathia, for sometimes a disease may be caus'd of a disease by connexion, nearness, society, likeness of parts. A disease is great by symptoms, cause, excellency of parts, &c. if short and great, 'tis acute, of

which

which fort are perperacuti, ending in 4 days, peracuti in 7, acuti in 14, after acuti ex decidentia; if extended to 40 chronic. continued and intermittent; the intermission and paroxism make a period; paroxism's caus'd by new congestion, putrefaction, or motion of matter. Diseases are either Sporades, i. of divers kinds, invading many at once, as one with opthalmia, another with a pleurifie; or communes, of the same kind, and seize divers at once, and are either endemii, i. familiar to one region; as strume to the Spaniards, &c. or Epidemii, seizing some region, either pernicious or not; these have common causes, Sporades particular. Lastly, diseases have 4 times, according to motion of morbific caufes; universal by reason of the whole diseafe, or particular in intermitting ones; the beginning's when the cause first fensibly hurts, or the time till coction appears; the augment, the increase of symptoms; state when the fight's most vehement; declination's only in falutary diseases. The paroxisms of intermittent have these times which agree with the universals. A relapse is the return of the same disease, though extinct, caused by morbific humor, left after an imperfect crifes.

A symptom follows a disease, as a shadow the body; of it are three sorts, of altion, burt,

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diminish'd by weak faculty, deprav'd in phrensies, abolish'd in cold, rarely in hot diftempers. 2. of excrements offending in substance, when good blood's evacuated, or stones, worms, &c. quality as heat, putrefaction, &c. quantity as too much evacuation, retention: manner, as blood voided at the dugs, eyes, &c. 3. quality chang'd, from actions hurt, and excrements: colour vary's from humors, tafte from them, or excrements, fmell from putrefaction, or other affection of parts and humors, and so of others.

SEMEIOTICA.

A sign's that which shews any other thing, naturally as weeping, or institution as speech; with Phylicians, causes, symtoms, effects, are figns, and these shew health, sickness, or neither; whence fo call'd, as to bodies, caufes, figns; of bodies in Physiology, Anatomy: of causes in Pathology, signs here Unhealthful figns are diagnostic, prognostic, or anam-

nestic; whence taken, see Reports.

A part ill affected's known by action hurt, excretion, fite, pain, proper symtoms; to which add fex, age, custom, &c. confent of parts; an Idiopathetic, i. primary disease is permanent, a sympathetic irritated by a difeate of another part, is quiet, or afflicts by intervals; add things hurting or helping, as remedies administred to one part hurt, or help another.

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The species of a disease is known by 1. cxcreta. 2. pain, as a pricking one shews a sharp humor, stupid cold; distending water or wind, heavy humors. 3. nature of a part, as opthalmia to the eyes. 4. proper accidents, as qualities chang'd, actions hurt; if abolifh'd, argue a cold; deprav'd, a hot disease. 5. from precedent causes, disposition of body, &c. a. malignant one's known by its 1. nature, as lues venerea. 2. cause, as putrified air, corrupt humors, &c. 3. fymptoms, if light, the patient, made weak, not eas'd by fweat and excretion, coldness of the extreme parts watchings; or drowliness in the beginning, horrors, droping at nofe, light fever, pulse like one found, tongue grow black, exasperated, faints, is malignant, & contra. of causes and humors before.

Pulse shews the hearts strength, Vrine the nature of the liver. spleen, reins, vessels, &c. both to be minded, for rarely's bad urine with good pulse; yet always remember this, Pulsus incertus, urina fallax, dejectiones sideles; but all subject to be alter'd by natural, non-natural, and preternatural things; the absolute differences of pulses, are taken from space of motion, time, middle quiet, moving faculty, and moveable. The respective from the equality, inequality, order, proportion. The absolute are great, strong, and shew sirm fa-

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culties,

culties; weak, &c. contra. quick, heat, fever, humor easily dissipable, slow, contra. often from a weak faculty, dangerous, hard, and languid together, a syncope, sic de cateris.

Vrin's to be inspected in the morning cold, within six hours; but see the Patient if you may. In it consider, 1. liquor, its substance, if thicker or thinner, argue bad coction; thin obstruction of veins, much drink, weak coction in the liver and veins, in acute diseases, whence with weak faculty death, strong, long disease; abscess, relapse; in chronic, obstruction.

Thick's from mixtion of humors in the beginning, fign of fight with difease, after thin, a fign of security, very thick long pains, abscess, relapse, from oppression of heat.

Perspicuous, strength of heat; if thin and white too, crudity, phlegm, long disease; if

fo the 4th day in acutis, death.

Thick, turbulent, from stone in the reins, excrements of the bladder, crudity: piss clear after thickens, sign of coction begining: thick after clear sign of victory; secretion of humors, &c. thick pist so remain worst, shews perturbation, doubtful combat, delirium, imminent or present, pain in the head, convulsion, death.

Copious, from much drink, diuretics, else ill; if not critical, as in ardent fevers, from

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colliquation, weak retention, heat of reins, in diabete, little è contra. ill in iliosis, morbis acutis, renum, &c. finking smell, is from putridness, ulcer, ill in acute, unless critical. Color's from mixtion of humors. White without fever, crudity, obstruction of the liver, &c. liberal drinking; with an acute fever dangerous, from weak faculty; bile flying to the upper parts, as in pleurisie, jaundies, threatens a dropsie, aph. 72. l. 4. white and thick flegm, pitchy, yellow, fafrony, degrees of bile : reddish and thin, danger of abscess; reddish and thick, long disease; in fevers, inflammation of reins, liver, &c. length in the beginning, in the state death : cruent, if critic, good ; else opening of the veins in nephritics; red from bile, with splendor, from bloud not. Leekblade color, adust, bile, putridness; sea-green from melancholy, fometime death, if not critic; black idem, sometime from black mixt humors, and may be critic, and fafe in acute and chronic; in suppression of months, splenetics, quartanaries; if yellow preceded, 'tis from heat and ill. Contents are the clouds, enacoremo, i. that fwimmeth in the middle, and fediment. In fick, they come from a morbific humor, or if he live plentifully, from ali-Sediment as in found notes coction. ment. in the middle less, in the cloud least; if it fuddenly appear, shews quick crisis to health.

if laudable, if ill to death. Want of content's from crudity, combat of nature and disease, weakness, inflamation, obstruction, or great vacuation; not ill in found, but oft in fick. If it have a good fediment, and fuddenly not, labor and change from contumacy of the difease, or weak heat: red sediment long, but falutary difease, aph. 71. 1. 4. black in acute worst; rough, contumacy; inequal, difficulty of coction; varycolor'd, now white, then red, &c. varyfigur'd now round then divided; in confistance now thick, now thin, all ill from difficulty of coction. Copious in the beginning crudity, in the declining, cateris paribus, good; from colliquation come fat, oleous, pultous, fcaby, branny urines; from burning heat, fandy, ftony, hairy: Sands sticking to the glass side, are from the reins, and shew heat, in fick, fever; purulent and fætid an abscess; less fætid from the reins, than bladder, and's more mixt, without scales, pains in the loins, not groins; if in neither from the upper parts; pinguous mostly in pestilent fevers; pulsons sediment from colliquate flesh, from burnt blood only, long difeafe, aph. 37. 1. 7. scaly's not fætid if from colliquation, but deadly; from an ulcer fætid, aph. 8. 1. 4. branny, not from an ulcer, and scaby bladder, deadly, aph. 77. 1. 4. bubles from wind, and thew head-ach.

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In dejections note the substance, quantity, quality, manner of voiding; hard from heat inward or outward, much urine. Si intercepta, alvus pauca, nigra, & in spiras circunducta dimiserit, & per nares eruptio fiat, malum, ob magnum incendium viscerum. Liquid, crudity, in lienteria, mesentery obstructed, hindering the chiles passage, catarrh, colliquation; good in diseases if critic; not in the beginning, whence in Coac. perliquida deject & multa neque quiescens in acutis, mala, maxime si abfuerit sitis, ob caloris extinctionem : bad alfo with a fwoln belly; in mild diseases length; after long ones bad, because it comes of weakness; small, white, light, glutinous, bad, 2 prog. 21. and fat from colliquation, if not from meat ; hot, sharp, heat ; cold, è contra, flink from meat or bad coction, putrefaction; color from humor, or medicine; versicolor'd ill, 4. aph. 21. if not from cathartics, then tends to better, 2 aph. 14. fætid, red, billious, eruginous, choler go upward and downward, deadly. If liquid with found, bad, and void often and little; frothy from a defluxion a capite, mixt flegm and wind, in acute from colliquation, with aftuous spirit: lastly, they ought not to be much and oft, for dissolution of spirits; nor little and often, for watching.

In fweat regard 1. quantity, copious in the beginning, with strength a long disease, with weakness death, aph. 42. & 56. l. 4. sew bad. 2. quality, cold, bad, always in acute death; in mild length, aph. 374. taste, color, & c. from humors; stink ill, in the beginning before criss. 3. time best on a critical day, else length and relapse. 4. it must be universal; particular as head, & c. in acute death, in mild length; from what hath been said, may judgment be made of Mucus narium, sordes aurium, saliva, sputum, & c. lacryma the same with sweat and urine.

Prognostics are very distinct, they may in great part be made from what hath been said; in acute are no certain predictions of life and death; nor in the beginning if the disease ends not the 4th day. Errors of sick and servants chances, which the Artist can neither foresee nor command; and Hippocrates's aliquid divinum, whether from the Air, Stars, Devil, Witches, &c. disturb Prognostics.

The manner of the event's here to be regarded; if by crisis or lysis, needful in prescribing dyet and remedies, for in an instant crisis thinnest dyet; nor to bleed, purge on critic days; a fierce fights crisis, none lysis; crisis is a sudden change to health, or death, chiefly health; its nature concocts, separates, expels the morbisc humor: its perfect with-

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the. out fear of relaple, or imperfect and unfaithwith ful, contra. A good crisis, 1. with copious excretion, or abscess; trust not them that are eas'd without reason. 2. signs of coction, on an indicating day, and critic day; for it hath place only in humoral difeafes, and ftate, or a little before.3. without dangerous symptoms, and Patients eafe. 4. it must agree with the nature of the disease, for a burning fever ends in hemorrhagia, fweat, flux of the belly, vomit; a chronic in abscessu. 2. Nature of the part, for the gibbous part of the liver's emptied by urine, the flat by the belly. 3. temper, age, region, time, custom, sex,&c. signs of crifu, are causes and signs, as vomit, sweat, &c. or figns only, as pain in the head, watching, toffing, either precede, accompany, or follow. The first shew the time, or kind, as sweat, &c. as if the urine have a laudable fediment the 4th day, 'tis judg'd the 7th, if no error on any hand; if the first or second, tis ended the first quartanary. Grievous fymtoms precede an instant crisis, which ought not to fright the Artist, if he see signs of coction, unless with malignity. A heavy night precedes a day criss, a heavy day a night one: timely phlebotomy, gentle purging, as Hippocrates and Galen us'd, promote it, easing natures burden.

Various

Various species of crisis, 1. by bamorrhagia, its figns are plethora, &c. its in burning fevers and inflammations. 2. fweat, its figns are fuppression of urine, rigor, &c. head-ach, pain in the stomach, trembling of the lower lip, nauseousness, &c. precede vomit; a suppression of other evacuations, shews a diarrhaa. the contrary a flux of urine. If none of these appear, a translation follows by abscess, if to a noble part death. A good crisis falls on a good day; now a days with Physicians 24 hours, and begins from the bour the fick felt an assault; but in childbed, if she be taken with a fever long after labor, count's to be made from the time of the fever, not labor; if foon after labor, e contra; if 'twas not natural, for then the morbific humor began to be ftir'd; if 'twas natural, begin from the day of the fever, for 'tis like the fever rose not from the agitation of the labor, but some other cause; so in wounds of the head, the count begins not from the fever, but wound; odd days are only critic and indicate; they fall in bilious diseases; if it begin the 3d, the 5th, and 7th, are critic, because bile hath a tertian circuit. If it begin from blood, the next day it draws bile into its company, which from its certain circuit, the 4ths the first critic, from the beginning; but the 3d from biles motion, and fo forward. Now days

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are perfecte critici, as 7,14, 20. or indicating which shew a criss, to come the 7th, and is salutary with signs of coction, as urine having light and equal sediment, the 4th shews criss will be 7th; now they are 3; quartus est index, 7i. undecimus, 14i. 17i. 20i. which days are also often critical: or they are intercident; which are not perfecte critici, as in the sirft week, 3d and 5th, in the 2d, the 9th and 19th, in the 3d the 19th, which all sollow the biles motion, the rest are vacant, neither judging nor indicating, and remedies are safely administred in them, as the 6th, to the 18th.

Forget not to take notice of the Hypochon-dria's, for if they be soft, equal, without pain, good, è contra, bad; so if hot, and other parts cold; if their pulse be great, shews madness; if contracted by inflammation of diaphragm, peritoneum, &c. schyrrus, inflated, inflam'd, painful, all bad. Likewise note the habit and actions of the body, as Hippocrates's face worst; wherein are sharp nostrils, fallen tempils, holloweys shrivel'd ears, hard forehead-skin, face black, livid, provided it came not from watching, flux, &c. so the bulk, sect. 2. aph. 28. whose body in fevers quickly diminish, shew weakness, è contra, length of disease.

THERAPEUTICA.

The Physician's to cure cito, tuto, and jueunde, by fit remedies, and indications; now indication infinuates what's to be done, if strength be overcome nothing's to be attempted, the thing indicating shews what's to be preserv'd, or destroy'd; the thing indicated, helps the indicating, and's unlike the cause and disease, but like the faculties; coindicating's that which shews how, when, &c. any thing's to be done; what hinders, contraindicates, that correpugns which lets secundarily, as bile indicates purging, strength coindicates, weakness contraindicates. In contrary indications, that's to be preser'd which urges most, as weak faculties, &c.

The first indication's contrariety; removing the cause, is call'd preservation. A similar disease requires altering; but moistning, heating's safer than cooling, drying in organics obstruction desires openers; in connex diseases sometimes one being cur'd, the other ceases not; as inflammation in an ulcer's first to be remov'd. In causes the substance, quantity, quality, place, motion, are to be regarded, stones, worms, &c. indicate ablation; vapor, discussion, quantity, vacuation; quality, alteration; motion of humors

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to the stomach vomit; if immoderate, to be adstring'd or revel'd; so humors in the first region vomit or purge, in the habit sweat. In motion consider 1. the part mittent, indicating revulsion. 2. recipient, adstriction, or derivation. 3. the passages, interception. humors are too quiet, use attenuaters; if impacted in the parts resolvers, sensibly or infensibly. Symptoms as pain, watching, &c. if urge, encounter first, or remove the cause and they cease: conserve the faculties by diet; the rest rather coindicate, than indicate truly. In parts consider 1. temper, a fever in a cold body's more dangerous, and requires colder remedies. 2. action, if private use remedies boldly : if public, contra; not all at once, but by intervals; not omitting strengthners. For remedies, nothing makes this noble art fo conjectural as their quantity; the times, motions, fymptoms of diseases shew the time of using them. All the rest's in the Book.

Here for conclusion let me advise thee to beware of the Pseudochymical Cure of diseases by likes; for if a Flux be cur'd by Purge, 'tis by removing the cause, or some accident, &c. likewise of universal medicines, so much cry'd up; your diabolical charms and sigils, &c. the magnetic cure, which they call transplantation, and secrets, of which

two last more in this Book.

So

So Reader farewell, and if these my pains and endeavors be accepted by thee, in the next Edition thou shalt have a compendious Treatise of Operations, and particular Diseases of the body, God sparing me life.

An



An Etymological Explication of Greek Words.

Ncorides, ab ancyra, an Anchor, & idestai, to resemble. Ancon, ab ana, upon, ciffai to repose, because one leans upon his elbow. Amoragia, ab hama, blood, rein to flow. Acromion, ab acros, the end, omos, shoulder. Anatome, ab ana, often. temnin to cut. Anodyne, ab a privative, odyne pain. Aorte, ab air, the air, terin to conserve. Apozema, a de, of, zein to boil. Apophlegmatisme, ab apo, far phlegmatizen to spir. Apophysis, ab apo, out, phyim to produce. Arteria, ab air, tirin to conserve. Arytenoidis, ab arytena, the beak of an ewer, Astragalos, ab a greatly, strephin to turn. Gangrena, de grain, to eat. Gloutii, de glyni, to be soft. Gonorrhea, a goni, semen, rein fluere, so flow. Dermacutis; from derin. to flea. Diaphragma, de dia, separation, phrassin to hedge. Propax, from drepin, to pull away. lion. ab ilein, to turn, or rowl, Emetic, from emein, to vomit. Emminia, ab en, within, min. mouth. Epigastrion, ab epi, super, gastir, venter. Epigmis, ab epi, super, genu the knee. pithe ma, ab epi, super, tithemai to put.

Epiploon,

Epiploon, ab epi super, plein to swim. Epispastic, ab epi super, spain to draw. Epiphysis, ab epi super, phyin to beget. Epulotic, ab epi super, ouli cicatrice. Errina, ab en, intra, dy rin nasus. Erpes, from herpin, to creep. Erythrois, reddish, from erythron red. Erysipelas, ab eryn to draw, pelas nigh. Eschar, ab es super, cain, urere. Thenar, a thenin to beat, or thein to put in. Therapeutic, a therapeuin, to cure. Thlasma, a thlain, to bruise. Thyroidis, a thyreos a buckler, idis like. Thorax, a thein to leap, orin to conserve. Ischion, ab ichin, to sustein. Ichor, ab ichin, to attenuate. Camara, fornix, a vault. Clinoidis, a cline, a bed, idestai to be like. Concha, o'th' ear, a cavity like an oister. Coccyx, from a Bird call'd a Cuckow, like its beak. Condyli, a Camphin to bend, or make crooked. Coracoidis, a corax a crow, idis like its beaft, Cotylis, a cotyli, cavity. Cranion, a chein, to dry, because dry. Cremaster, a cremain, to suspend. Cricoidis, a cricos, a ring, ideftai, &c. to be like. Cyftis, a cyin, to hide. Colon, a coin, to pour out. Conarion, de cones, a pyramid, because like it, Larynx, de la greatly, ryin to cry. Masseter, from massain, to chew. Mastoid, a mastos, a dug, a massin to suck. Metacarpion, a meta after, carpos the wrist. Meninx, a menin to prefide, yinx the brain. Mys, a mouse, resembling one flead. Neurochondrodis, a neuron nerve : chondros cartilage. Nephri, renes, a nephrin to moisten, ouron urine. Xiphoidis Xiphoidis, a xiphos, a sword, idestai to be like. Odontrimmata, ab odous dens, trin to rub. Oedema, ab idein, to sweat. Oesophagos, ab iin to carry phagin to eat. Olecranon, ab ole cubitus, cranon caput. Opthalmos the eye, ab optestatis to see. Pancreas, pan al, creas flesh. Paracentesis, from para with, centein to prick. Pararthrema, a para nigh, arthron, joint. Parastatis cirsoides, a para nigh, istastai to be firm cirsos, varix, from cirin to dilate. Pericranion, a peri about cranion the scull. Periostion, a peri over, ostion the bone. Peritoneon, a peri over, tinin to stretch. Perone, metaphorically a needle, from perin to pierce. Plethora, a plithos quantity, ora limit. Pterna, de patin to march, erra the earth. Sarcocele, farx flesh, cele a ruptune. Scirrhos, a scira plaister, being as hard. Spasmos convulsio, a spain to draw. Sperma seed, from spirin to sowe. Splen, the spleen, a spain. and yli gross matter. Spondyli, a Sphingin, because bound together. Sternon, a stain to be firm. Stomachos, a stoma the mouth, chein to pour out. Styloidis apophisis, a stilos a pillar, &c. Symptoma, a sun con, giptin to fall. Syssarcosis, a sun con sarx caro. Sphenoides, a sphin a wedge. Sphinster, from sphingin to bind. Tarfos, a tarfin to dry, becouse 'tis a dry part. Torchanter, a trochazin to run, from trochien to move Tripanon, from trepin to turn. Hydrops. ab bydor, water, pinin to drink. Hymen, from hyin to stretch. Hypogastric, eb hypounder gastir venter.

sypochondria, because under xiphoid griffle.

hoidis

Hystera,

Hystera the womb, abhysteros last, having the last place among viscera.

Pharinx, a pherin to carry, yinx, the voice, pin to

cry.

Phtis, from phtiin to corrupt.

Phlegmone, a phlegmonin to inflame.

Phlebotomia, a phlebs vena, temain to cut.

Chalastica, a chalaiu to relax, mollisse.

Choane, a choin, to pour out.

Omoplata, ab omos, ab ein to sustein, platys large.

Trauma a wound, from thrabin to wound.

Cholagogon, de chole bile, agin to evacuate, so flegm;

blood, melancholy.

Colletica, glutinaters, a collao glutino. Cephalica, from cephalos caput.

Cardiaca, from caer, cor.

Catheretica, from catherin to cleanse.

Phenigmi, from phaninx, a red color.

Pfilothra, from pfiloin, to take away hair.

Smegmata, from smea abstergo.

Catheter, from cata within, ein to send.
Anthrax, from ana above, therein to leap.

PhlyElana, from phlyzin to boil.

Emphysema, ab en within, physsain to blow.

Azygos: ab os privative, zygos yoke.

Acrochordon, ab acros the end, cordi cord.

Anacatharsis, ab ana above, cattaherin to purge.

Empiria, aben inter, pira experience.

Emplastrum, ab en within, pelayin to approach.

Cretaphoi, a ceras a horn, phyin to grow, the horns in

beafts grow there.

Malatics, from malassin, to mollifie.

Melancholy, a melas black, chole choler.

Oncos, a tumor, aben within, echin to contein.

VADE MECUM:

OR, A

Companion for a Chirurgion.

HE Artist being armed with these and the like Instructions, let him be provided with an handsome Emplaster Box, surnished with these Instruments following, always kept bright and sharp, viz.

Incision Knife,
Scissers,
Forcipes,
Plain Spathula,
Spathula, or Speculum
Lingua,
Single, and Screw
Probe,

Voula Spoon,
Stitching Quill, with
three Chirurgions
Needles, of feveral
fizes,
Director, with Speculum Oculi,
Fleme.

Having always therein some Emplastrum Diapalm. de Minio, or such like, ready spread upon Linen Cloth, with Lint, and Thuraloes, or such like astringent Pouder.

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The Lint is to make Plegets, and Tents, &c. of, and fometimes to stay a Flux of Bloud.

Pulvis Thuraloes is made of two parts of Frankincense, and one of Aloes, finely poudred; and when you have occasion to use it, mix so much of it with the white of an Egg, as will render it of the consistence of Honey; which with the softest hair of an Hare, apply upon Lint to the Vessels, or other part, and about the Wound, using sit Ligature. Likewise some catheretick, or corrosive Powder to eat away putrid or supersluous Flesh, which is made of burnt Alume, Pouder of Mercury, Precipitate, and such like.

Emplastr. Diacalciteos, or de Minio, or such like, is to be applied over all your other Medicines, to keep them firm to the part, where you cannot use convenient Ligature,

Gc. and fomerimes when you can.

His Salvatory should be furnish'd with these Unguents following, viz.

Basilicon Majus,

Egyptiacum alone, or Ung. Album,

mixt with Basilicon, Desiccativum Rubrum.

Then let his Closet or Chest, in time of Peace or War, be furnished with such Instruments and Medicines, Simple and Compound,

as shall be hereafter mentioned; where shall be set down the use of every particular instrument, and Faculties of every Medicine, and Dose and manner of making and using.

But first of those in the Plaster-Box and

Salvatory.

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Certain Instructions concerning the use of the Instruments in the Plaster-Box.

And first of the Incision Knise.

THE use of this Instrument, is to cut the Skin or Flesh upon needful occasions, in paring away the putrid part of a Gangrenous Member, in making Fontanella's, or Issues, in opening Apostemes, in Scarifications, &c.

Let this Instrument be always kept clean and bright, bybeing rubb d dry after it hath been used, and sharp as any Razor. Let the Artist ever hide it from the Patient's sight with a Cloth, and also all other sharp Instru-

ments, for divers Reasons.

Of the ordinary Sciffers.

THE Scissers be very useful to cut Cloth for Rolers, Lint, and Emplasters; to cur, and clip off loose Skin, putrid or superfluous Flesh, &c.

Of the Spathula.

THE Spathula is used to mingle your Unquents on your palm of your hand, to cover your Pledgets, &c.

Of the Small Probes.

THE Probe cannot be missing in the Chirurgions Plaster-Box, for without it can nothing be done artificially. Theuse of it, is to arm the Eye with soft Lints, and with the other end to make probation of the depth of a Wound: sometime the small end armed with Lint, is dipped in some Oil, or Liquor, and conveyed into the bottom of an Ulcer, or Fistula, thereby to mundifie, or heal.

Of the Scrue-Probe.

Is as long again as an ordinary Probe, made to unferue in the middle, and is used where

Of the Uvula Spoon.

This serveth to put Pepper, Salt, and fine Bole in, by putting it under the Uvula, or Palate of the Mouth, being fallen, and blowing the Pouder into the Cavity behind it thorough the hollow Pipe: It also serveth to warm a Medicine in, as Unguents, to dip in Tents when you want an ordinary Spron; also to pour hot Oil or Liquor into a Wound, whereto I do constantly use it in green Wounds, as hereaster you shall find in in the ensuing Discourse, of curing of Wounds.

Of the Stitching Quill and Needles.

These are Instruments that cannot be missed in your Plaster-box; you shall therefore have in your Stitching Quill at least three Needles of several sizes or bigness, with square points well set, and ready armed with green or red Silk oiled, your Needles always kept oiled, and clean from rust; in want of Silk, at any time upon necessity, you may use thread, rubbing it with some kind of Emplaster: You must also have in your said B 3 Stitch-

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fliching Quill a Taylor's Needle, or two, with thread, to few your Rollers, and make them fast in the rolling of Wounds, Fractures, or Dislocations, &c.

Of the Director.

THE Director is an Instrument to guide and direct the Incision Knife, in Dilatation, or enlarging a Wound, when you are near any Vessels. They are also used in cutting for the Scone.

Of the Forcipes.

These are used to take off Emplasters, Pledgets, and Tents, to take out a spilt of a Bone, to hold up any piece of supersuous Flesh or Skin, thereby the better to cut it with the Scissers, or Incision Knife; to take out any thing that may chance into the Ear, Nostrils, Mouth, or Throat; to take out a Bullet lying within reach, or any thing that is offensive in a Wound; and is an Instrument of continual and very necessary use in Chirurgery.

Of the Spathula Lingua.

THE Spathula Lingue, or Speculum Lingue, is much like an ordinary Spathula

at one end, only it is perforated and cut through, the better to hold the tongue down without flipping off; the other end is made to scrape the tongue that is surred in Fevers, Cankers, or other affects of the mouth; it is used to hold down the tongue when you inject any liquor into the throat, or apply any medicine to the mouth or throat, or when you would make inspection into the mouth or throat in any affects of the Uyula, or in Squinancies, Cankers, or Excoriations of the mouth or gums.

Of the Fleme.

IT is an Inframent used to open Gums, and feparate them from the tooth you intend to pull out, compassing the tooth with the round sharp end thereof close to the tooth, piercing deeper by little and little, until you feel it as low as the jaw-bone: Some use to open a vein with this Instrument, but for mine own part, I do disallow it as very uncertain, and dangerous, for touching the Nerves, or great Vessels.

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Next we must look into the Salvatory, to see what Unquents we have there, to declare the Composition of them, their Virtues and Uses. But first we must say somewhat of Weights, Meafures, and Scales, used in Physick.

Weights, Measures, and Scales

AR E things upon which depend oftentimes the life or death of the Patient: let the Artift therefore be stored with several pair of Scales, for Pounds, Ounces, Drams, and Grains, with good even Beams, both them and the Pans kept clean scoured; now because many having Scales and Weights, scarce have the true knowledge of them, I will therefore set down what kind of Weights we ordinarily use.

A Grain is the least Weight used in Phyfick, and is marked thus, --- Gr.

Twenty Grains make a Scruple, marked

thus, -- 9.

Three Scruples make a Dram, marked thus,

--- 3

Eight Drams make an Ounce, marked thue,

So that there are as many Scruples in one Ounce, as there are Letters in the Alphabet, viz. 24. as the Poet Faunius testifies,

Uncia fit drachmis bis quatuor unde putandum Grammata dicta, quod bec viginti quatuor in se Uncia habet, tot enim formis vox Graca notatur, Horis quot mundus peregit noctémque diémque.

Twelve Ounces make a Pound, and is marked thus, — 16.

The half of any thing, thus, - 13:

The usual forts of Measures used in Physick, are,

Cochleare, or a spoonful, which of Syrrups, &c. contains half an ounce, of distilled waters three drams.

Cyathus, which comprehends one Ounce and an half.

Congius, which comprehends eight Pound.

Manipulus, or handful, as much as the hand
can comprehend, marked thus, — M.

Pugillus, as much as can be taken up with thumb and four fingers ends, thus, — P.

A Pint is one Pound, marked thus,—Pint.
Numero & Paria, so Fruit are measured,
marked thus,—No. & Par.

B

Ana,

Ana. is a like quantity that follows of two or more things before mentioned; or if no quantity follows, then the quantity must be equal, marked thus—an.

Partes aquales, equal Parts of all are to be

taken, thus - p. a.

Quantum sufficit, thus __ Q. S.

Quantum vis, thus-Q. V. Quantum placet, thus-Q. pl.

All these are, when the Weight or Measure is left to the freedom of the Apothecary.

Secundum Artem, marked thus—S. A. is when the manner of Compounding is left to

the Apothecary.

Stratum Super Stratum, marked thus—S.S.S. is when two things are strew'd by turns one

upon another.

Balneum Marie, or Maris, marked thus—B. M. is when any thing is boiled or distilled in a vessel or Alembick, put into another Vessel sull of boiling Water, and so kept boiling or distilling therein.

Now of Unquents in the Salvatory, but first we must premise something of Unquents and Liniments in general.

U Nguents were for delicacy among the Ancients, in Greek myra; Now they are thicker than Liniments; the simple are made

made of Oil, Wax, Powders; to one Ounce of Oil, 3, or 3is of Pouder, two drams of Wax, for hot ones: But in cold; drying, deterging, which confift of Minirals, as Tutia, Minium, Plumbum, half an Ounce, to an Ounce; unless they are corroding, as Arugo Dil. Chalcitic Di. Hydrargyr 31. Sublimat. Gr. vi. Sulphur vivum. 31. Arfenic. Gr. ii. for 3i, of Oil. Sometimes ere added Juices, or Shop-ointments, to 3iii. Ponders 3vi. Wax, Oil, q. f. in hot Weather more Wax than in cold; instead of Oil may be used Butter, Greafe, Mucitages, Marrow, Turpentine; fo for Wax, use Rofin, Colophony, Pix, the same Dofes. Some are made without Fire or Wax, of Oils, Pouders, Metals, and Juices, stirr'd in a Mortar, whence call'd Nutrita, to refrigefate, and formalignant Ulcers, commonly for 3i. of Oil, half an Ounce of Pouders; yet is best to prescribe of Pauders, q. f.

Now a Liniment in general is made of only Oil and Butter, or else may be added, Fats, Grease, Suet, Martows, Mucilages, so that there be two or three parts of Oil to one of the rest. Sometimes to Zi. of Oil is added Zi. of proper Pouders. Sometimes Wax, or some Shop Unguent, Zi. of Wax to Zi. of Oil, but equal parts of the Oil and Unguent; 'tis used to ease pain, to laxate the parts, to soften, digest inflammations, calefie, humest and resolve.

Now in particular, and first of Basilicon.

Basilicon is an Unguent used almost in all kinds of Wounds, and Ulcers, either by its self, or mixed with other Unguents; for it hath the virtue to heat, humest, and mitigate pain: it digesteth and incarnateth Wounds and Ulcers, and suppurateth Apostemes, either hot or cold. It is likewise very fitly used with Præcipitate, Egyptiacum, or any corroding Medicine, making them work with more ease, and better mundifies: it is also good for Burnings and Scaldings, and is thus made:

R. Yellow Wax, Pine Rosin, Ox Suet, Greek, or Ship pitch, Turpentine, Olibanum, Myrrh, of each of 31. Oil. 3v. the rest being melted, sprinkle in the gums, boiling them to a fit body.

Liniment of Arcaus. ?

This Arcans's Liniment is a fovereign Balm, not to be sufficiently commended in all Wounds whatsoever, especially in those of the Head, where it doth merely of it self, all the intentions of healing, extraneous Bodies being first remov'd, and the Flux of Bloud

Bloud quite stay'd, for it digesteth, mundiseth, incarnateth, and cicarrizeth, it defendeth from accidents, and is very anodine: I have divers times applied it, mixed with other Unguents, to painful Ulcers, and Fistula's, with good success; it is made as followeth:

R. Gum Elemi

Turpentine of the Fire tree and half,

Rams Suet old and tryed, 3ii.

Old Hogs fat tryed, 31.

Dissolve the Gum in Sack, and evaporate the Sack, then put in the Fats, and lastly the Terebinth, and mingle them well together.

Ægyptiacum.

DEterges and mundifies old, fordid, virulent and fiftulous Ulcers; prevents great contufed Wounds from Gangrenes, &c. is thus made:

R. Verdigrease five parts, unskum'd Honey 14 parts, strong Vinegar seven parts. Boil the Vinegar and Honey a little, then add the Verdigrease, and boil it over a gentle Fire, to a just thickness and red color, S. A. some add Alume one part.

Instead of Unquent. Apostolorum, to cleanse and scour foul Ulcers, to make good ground for

for healing, and abate spungy slesh, use always Mundificativum ex Apio. or Agyptiac.or Ung. Basilic. two parts, and one of Agyptiac. or p.e. as you fee cause, you will find it cleanses better.

Mundificativum ex Apio.

R The jnice of Smalage to i. honey 3 ix. Wheat-flower 3 iii. boil them till they come to the thickness of an Unguent S.A.

Unquentum Album Camphoratum

IS good to cool and heal any hot moist Pustles; it cureth Excoriations of the Skin in any place, but chiefly in the Yard, betwixt glans and praputium; it also healeth burnings and scaldings very well, and is good to be applied to any painful Ulcer, for it affuageth pain, and healeth well: it is cold, and anodine, is made as followeth:

Of unripe Oil of Roses 3 ix.

Ceruse washed in Rose-water, and finely poudred, 3 in. Verdigrease, and ho

White-wax 3 ii.

First melt the Wax in Oil, then in the Ceruse, and if you will have it with Camphore, then add to this proportion of Camphore 3 ii. poudred with a few drops of Oil of Sweet Almonds.

Instead:

Instead of Unquent. Diapompholigos painful Ulcers in any part of the Body, especially of the Yard, or betwixt glans and preputium, you will find any of these, ung. alb. populn. rosat. desiccat. rub. nutrit. &c. alone, or ingeniously mixt, to be far better.

Desiccativum Rubrum

Is used to cicatrize Ulcers, either by its felf, or mixed with Ung. Rosat. it is thus made:

Oil of Roses Omphacine, 1 th. and an half. White Wax, 3 v.

Melt them together, and put them into a leaden Mortar, and sprinkle into them

Earth of Lemnos, or Bole Armeny 7 of each Lapis Calaminaris finely beaten (3 iv.

Litharge of Gold 3 of each 3 iii. Cernse

Camphire 3i.

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Work them all very well together in the Mortar, to the form of an Unguent.

Thele are for the Salvatory: Next I shall shew you the making of Emplasters, with their uses, and then take the rest in order. Ting alight-spanis

n no onois na

But first of Emplasters in general.

E Mplastrum was written by the ancient Greeks without an r, but the modern, and after them the Latins, with an r, from Emplattein, says Heurnius, i. e. fingendo, for-mando, 'tis thicker than an Unguent or Cerat, made of the same things, as of Plants, Minerals, Earth, Ashes, Excrements, and all parts of Animals. Some to 3iii. of Oil, add 3i. of Pouders, and one of Wax. In lieu of Wax, fometimes is put Labdanum, Propolis Pix. Sometimes Gums are added to 3vi. Lytharg. Cerufe, then you must augment the quantity of oil; but if you add axungia, terebinth, or any liquid lacrym, you must diminish your oil; first melt the Wax in the oil, if you add Lytharge, Juices, or Mucilages, boil them together till they be wasted, then mix in your Fats, Rosins, Gums, either pure or dissolved in proper liquor, as Wine, Brandy, Vinegar, or proper juices; when they are all almost boiled enough, sprinkle in your Pouders, stirring them very well with a Spathula, till they come to be a fit mass; when they are almost cold, put in your Safforn, Musk, Amber, and fuch things as will not endure boiling; you may know when 'tis boil'd enough, if putting a little upon a Stone, or into the Water

to cool, it will notifick to your fingers. Spread it upon leather oval, or in the form of a T, for the head, and so in form answerable to other parts, or four-square for the reins, &c.

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Now of Emplasters in particular, and first of Stipticum Paracelsi. And here Quid dignum tanto ferat his promissor hiatu?

'TIS a Wonder to see how this Plaster is extol'd by the Author, and what strange, idle things are promised to be perform'd by it, when they're nothing but clouds without rain; in short you have Oxycroceum Diachyl. mag. cum Gum. and others as good to all intents; however the making of it is as solloweth:

R. Oil of Olives Zvi. yellow Wax Z B. Litharg. of Gold fears'd Ziiiii Ammoniac. Bdellium an. Z B. Galbanum, Opopanax, Oil of Bays, Lap. Calaminar. Aristolochia long. Evolund. Myrrhe, Thus, an. Z ii. clear Turpentine Zi. Boil the Oil and Litharge together, stirring them continually with a wooden Spathula, till they will not stick to your fingers; then taking them from the Fire, melt in the Wax, presently after put in the Turpentine and Gums mixt before, lastly the Pouders, and when all begin to cool, the Thus, and at length the Oil of Bays, then you make an Emp. S. a. Diacal-

Diacalcitheos, or Diapalma,

a good defensitive against all venomous Humours, and is used last in Wounds, and Ulcers, to induce a Cicatrice, which it is very good for; also it hath a very good quality to assuage the pain in the small of the back, proceeding from distempered kidneys coming of a hot cause, as well concerning the Stone and Gravel, as in the Gonorrhea: and dissolved or relented with Oil of Roses, or Elders, or of Linseed; it is a very good Medicine to heal Burnings and Scaldings.

I do use it in Fractures after the first opening, covering the member at least two hands breadth upon the Fracture, with the Emplaster spread upon Cloth; and in great Inflammations in Summer-time, I dissolve it in Oil of Roses, and so apply it to the Fracture: it

is thus made:

R Hogs fat fresh and old, and cleansed from the Skins, to ii.

Old Oil, Scum of Silver, best and fearced,

of each to iii.

White Vitriol burnt and pouder'd, 43.
The Litharge, fat and oil must be boil'd together over a gentle Fire, (with a little Plantan

Plantan water) almost to the consistence of an Emplaster, continually stirring them; then taking it from the Fire, put in the Vitriol.

Emplastrum Griseum, or of Lapis Calaminaris.

This Emplaster I do commonly use in healing Ulcers, which are hard to be cicatrized; and it is marvelous good in curing Buboes, as well venereal and pestilential, as common: it is also the most incarnative of any Emplaster that is in use. The composition is after this manner:

R. Lapis Calamin. prepared, I ounce. Litharge 2 ounces. half an ounce. Ceruse ı dram. Tutty Turpentine 6 drams. White wax 1 3 and half. Harts-fuet 2 ounces. Choice Frankincense 5 drams. Mastich 3 drams. Myrrhe 2 drams. Camphor 1 3 and half.

Let the Terebinth, Wax and Suet be mixed together, then a little after cast in Thus, Myrrhe and Mastich pouder'd; to which well mixt, let the Pouders of Cap. Cal. Lither.

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Ceruse, Tutie, be added; lastly, these being not bre cold, put in your Camphor, dissolv'd in a lit tle Spirit of Wine.

Of the Melilot Emplaster:

THis Emplaster is good in green Wounds, for it draweth, and healeth well; also it attracteth and bringeth forward a cold Aposteme, and is made of the juice of Meli- of lot, Camomile, and Wormwood, with Rofin, Turpentine and Wax, and is an especial fecret, and the best, and oneliest thing I ever knew in curing kibed heels, and chilblanes, either broken, or before they are broken; Ido use it often upon Gun-shot wounds, to keep the Orifice open, and to warm and comfort the parts.

Of Diachylon Simplex.

THIs Emplaster is very good to dissolve schirrous Tumors of the Liver, Spleen, Reins, Belly,or elsewhere,2s the composition will shew, being all of mollifying and discusfing Ingredients; it serveth generally for hot or cold causes, but chiefly for hot. It is much used to Womens breasts in Childbed, when they defire to dry up their milk, being fpread upon linen Cloth, and applied over all the

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not breast, and towards the arme-pit. It is thus lit sumpounded:

R. The Mucilage of Fanugreek-feed, Linfeed, and Marshmallow roots, of each one pound.

Clear old Oil, three pounds.

Litharge one pound and an half.

The way to have the quantity prescrib'd li- of mucilages is this:

R. Of each three ounces, of common wa-

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Let the Litharge be finely beaten, and put I- to the Oil, and boiled with a gentle Fire, stirring it well with a Spathula, until they grow thick as Honey; take them from the Fire, and de let them cool a while then pour into the Pan your mucilages, and mingle them well, and boil them to an Emplaster of good consiftence.

Diachylum Iriatum is made by adding 31. of Oris roots to thi, of the simple Plaster.

Diachylon magnum, and with Gums.

THis Diachylon dissolveth, maturateth, and mollifieth hardnesses, and is principally good in Apostemes, and is compounded after this manner:

R. Litharge of Gold finely fearced, one pound. Oils

Oils of Ireos, Dil, Camomile, of each

eight ounces.

The mucilages of Marshmallow roots, of Linseed, and Fornugreek-seed, Raisons, Fat, Figs, Birdlime, Juice of Ireos, and Sea onion, Oesypus, or Oil of Sheeps-seet, of each 12 drams and a half.

Turpentine, three ounces.

Rosin of the Pine, yellow Wax, of each two ounces.

Let the Litharge, being finely poudred, and stirred a long time with the Oil, be boiled over a gentle Fire, continually moving till they wax thick; then taking the Pan from the Fire, when it grows cold, add the Mucilages, being first boil'd in the Oils, and strained, and boil them softly, to the evaporating the superstuous moisture; after add the Birdlime and Oesyp dissolv'd in the juices of Oris and Squils, and let the juices be wasted; in all which, yet hot, melt your Rosin and Wax, a little after taken from the Fire add Terebinth, moving all diligently, that the whole mixture be of a fit consistence for a Plaster; then

R Bdellium, Sagapenum, Ammoniacum of

each two ounces.

Dissolve the Gums in Wine, strain them, and boil them to the thickness of Honey, and put them to the aforesaid mass of Emplaster:

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and so you have Diachylon magnum cum gum-

Emplastrum Oxycroceum

Is anodine, attracting, mollifying, and comforting; assuageth pains of the Gout, proceeding of a cold cause, and is good in cold Aches; and by the attracting virtue it bath, it draweth out vapors per poros cutis, or the sweat vents in the skin, where by it often inladeth the Body of vicious and naughty humors, which otherwise might endanger the Patient. It is thus made:

R. Safforn, two ounces and an half.

Ship-pitch, Colophony, yellow wax, of each four ounces.

Turpentine, Galbanum, Ammoniacum, Myrrhe, Olibanum, Mustich, of each one bunce and three drams.

To the melted Wax, add the Pitch purg'd rom filth, and strain'd, the Coloph. with hese taken from the Fire, and a little cool'd, nix your Galbanum and Ammoniacum disolv'd apart in Vinegar, strain'd and boil'd to he consumption of the Vinegar, and mixed with Terebinth; then sprinkle in Thue, Mastich, Myrrhe, finely pouder'd apart; last-y Safforn most rarely pouder'd, stirring all well. E. Empl. S. A. Some omit the Safforn. Emplastrum

Emplastrum de Minio.

This red lead Plaster discusseth humors, assuageth pains, mollisieth, repelleth; and is commonly used upon Wounds and Ulcers, to further good healing, and induce a cicatrize; it is used in bruised and wrenched joints; if you use Mr. Gale's composition which I have made use of several times; and also both to mundise, incarnate and cicatrize.

The composition of the ordinary Minium-

Plaster sold in shops, is as followeth:

R. Red Lead, nine ounces.

Oil of Roses, one pound and an half. White-wine Vinegar, fix ounces.

Boil them to the just confistence of an Emplaster; let your red Lead be beaten, and arced very sine; boil your Oil and Vinegar together till half the Vinegar be wasted, then put in your *Minium*, and boil it till the Vinegar be quite consumed, and the Plaster look blackish.

It is also prepared without Vinegar, in this manner:

B. Red Lead, one pound.

Oil of Roses, one pound and an half.

Yellow Wax, four ounces.

First put your Oil on the Fire with your Minium finely poudred, boiling it with stirring

ring until the colour change to blackish; then slice in wax, and boil it to the just consistence, or you may omit the wax.

If you have Oxygroceum, there's no need

of Ceroneum.

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Emplastrum ad Herniam.

IT's Name shews it's good against Ruptures, Abortion, Tooth ach laid to the Tempils.

R. Galls, Cypress Nuts, the Barks and Flowers of Pomegranates, Acacia, Seeds of Plantan, Fleawort, Watercresses, Acorn Cups, dryed Beans, long and round Birthwort, Myrtles, of each 3 s. Let all these be pulverized, and macerated for four days in Rose Vinegar; then let them be well dryd: After & of great and little Comfrey, Horsetail, Woad, Ceterach, Roots of Royal Osmund, an. Zi. Thuris, Myrrbe, Aloes, Mastich, Mumy, an. Zii. Bole Armeny wash'd in Vinegar, prepar'd Lapis Calaminatis, Lytharge of Gold, Sang. Dracon. an. Ziii. Ship Pitch to ii. Terebinth. Zvi. or 9. s. F. Emplastrum s. a.

our tiring Emplastrum de Ranis cum Mercurio.

Is the best in the World against Pains in Lue Venerea; 'twas invented by Vigo, is had at the Apothecaries, duple, triple, or quadruplicate I with Mercury.

Emplastrum Diasulphuris.

This Emplastrum Diasulphuris is most excellent in the Cure of all Ulcers, of what fort soever, and is made as followeth:

R. Oil of Brimstone 3 iii. Wax 15 13. Colophony 3 iii. Myrrhe, as much in weight as all the rest. Melt the Wax and Colophony in the Oil, and mix them well, then sprinkle in your Myrrhe finely poudered, and boil them with a gentle sire, ever stirring it with a Spathula until they are well mingled, then take it from the sire, and make it up.

Sir Philip Paris his Emplaster.

This Emplaster is excellent for divers things; if you lay it upon the stomach, it provoketh appetite, and taketh any grief from the same; laid to the belly, it easeth the Collick speedily; laid to the Reins, it stopeth the bloody stux, running of the Reins, heat,

heat of the kidneys, and weakness of the back; it healeth swellings, aches, bruises; it breaketh fellons and apostemes, and healeth them; it draweth out humors without breaking the skin; it healeth the diseases of the Fundament: laid upon the head, it helpsth the head-ach, uvula, and eyes: laid to the belly, it provoketh the months, and apter he matrice for conception. The composition is as followeth:

R. Common Oil to ii. Red Lead, Ceruse, of each to i. beaten small. Castle-soap 3 xii. Incorporate these well together in an earthen Pan well glased, before you put them to boil; then put them upon a gentle sire of coals, ever stirring it with a Spathula, then increase your stirring; drop a little upon a trencher, if it cleave not thereto, then it is enough; dip linnen cloaths therein, and smooth them with a sleek stone, the rest make up in rolls; it will last twenty years.

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A Cerat,

So call'd from Wax it is made of, is harder than an Ointment, and softer than an Emplaster: 'tis made by adding Wax \(\frac{3}{11} \). proper Powders \(\frac{3}{11} \). to \(\frac{3}{11} \). of Oil, or other things analogous; or 'tis made of Unguents

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in the shops, by adding to 3ii. of the Unguent, 3 vi. of Wax, or q. s.

Sparadrap,

Is a barbarous word, 'tis made by dipping a Cloth into any Plaster that hath acquir'd its due coction; 'tis commonly cal'd, Tela Galteri. The Learned Sir George Em's, and best for Issues, is thus made:

R. Tellow Wax Hos. Terebinth. Minii an. Ziv. Cinnabar, Oris Root an. Zi. mosch. gr. 4. Melt your Terebinth and Wax together, then add the Pouders made up with a little common Oil, that they may be the easier min; among which, let the Cinnabar and Minium be finely poudered; stir them a great while very well, then add the Mosch dissolved in aq. ros. while they are yet hot, dip in a cloth a little worn, ut F. Sparadrap.

Cerats and Sparadraps are made for the fame use as Emplasters, viz. to calesie, humest astringe, co.

Of the Oyntments the Chirurgion is always to have in readiness in his Salvatory, we have spoken before; Now we come to treat of those he is to have always in his Closet ready prepar'd.

Unguentum Populneum,

Serveth well to assuage the pains of the Scurvy, by anointing the parts grieved therewith; it assuageth pain in any part of the body, and it easeth the dolor of a caustick medicine, by being applied cold upon a Pleget to the place grieved: it procures sleep in Fevers, if you anoint the Tempils, palms of the Hands, Wrists, therewith: anoint the back it stops a Gonorrhæa, and is made as followeth:

R. Fresh Buds of black Poplars to its. Violet leaves, and of Wall Navelwort an Ziii. Hogs Grease unsalted, and clean from skins, and washt to ii. These being all bruised, mixt and macerated together in May; add the tender tops of brambles, the leaves of black Poppy, Man-C3 drake,

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drake, or the leaves and berries of Mountain Elder, Henbane, Night-shade, Letice, greater and I ser Houseleck, the greater Burdock an. 3 iii. being all bruised and mixt, and pouring to i. of Rose water upon them ten days after, bout them with a gentle sire, continually stirring them with a Spathula, till all the superstuous humidity be wasted, then press them and strain them, & F. Ung. s. a.

Ungnentum Dialthaa,

Is good against all pains of the breast, of a cold cause, and against the Pleurisie; it warmeth, mollisieth, and comfortethall the parts of the body which are evil disposed through cold infirmities; it is good against stiffness, and pains in the joints in the Scurvy; it is good for cut Nerves, pains in the sides, and hardness of the Sinews, and is resolutive: and is thus made:

R. Fresh Roots of Marshmallows washed and bruised to ii. Seeds of Line, and Fænugreek, an to i. macerate them three days in toviii. of water; then boil them gently, and express the Mucilage, of which take to it common oil to iii. Boil them together, till the watry part of the Mucilage be wasted, then add yellow Wax to i. Rosin to st., Turpentine 3 ii. boil them to the consistence of an Unguem.

Unquentum Nicociana,

R. Tabaco leaves this. Pork grease, well wash'd, this bruise them in a Marble Mortar, and add red Wine Ziii. macerate them a whole night; then boil them with a gentle fire, continually stirring them till the Wine be wasted; to the straining, put on the fire, add the clarified juice of Tabaco this. Terebinth, Venet. Ziv. boil till the juice be evaparated, then add Roots of round Birth-worth poudred, Zii. yellow Wax, q. s. F. Unguent. s. a.

fonbertus a learned Phisitian of Montpelier invented this, and needed not any of Nich. Culpepper's praises; in curing cold Tumors, Wounds, Ulcers, Botches, Scabs, Itch, with Flos sulphuris &c. Scalds, Worms, Lice Hemorrhyods, or Piles, and Gouts of all

forts, &c.

Unquentum Martiatum,

Is good for many griefs: for it discusseth cold causes in the Head, Sinews and Joints; it removeth pain from the Breast & Stomach, proceeding from cold; it prevaileth against Convulsions; it helpeth resolution of the Sinews, dead Palsie, and the hip-gout, the gout in the Hands or Feet, and other joints of the Body; it mollisheth hard Pustles and Tu-

mors in the flesh; it assuageth the hard swellings of the Liver and Spleen, easeth the pain in the small Guts, and cureth the ach in the Reins, and is chiefly used in Dropsies, and affects of the Spleen: and is thus made:

R. Bay leaves fresh the iii. Garden Rue this S. Majoran. the ii. Menth. thi. Salvia, Absinth. Balsamita, Bazil, an. the Ol. Olivar. the xx. Yellow Wax the iiii. Malago Wine the iii. shred your herbs, and infuse them seven days in the Oil and Wine; the eighth day, boil them to the consumption of the Wine; cool-them, and strain it, then dissolve your wax over the sire; & F. Ung. s. a.

Un uentum Neapolitanum,

Is used for the Cure of the Lues Venerea, the manner you shall have in the Tract of the disease; it cures ltch, Scabs, and Leprosie; and is thus made:

R. Hogs Grease wash'd with juice of Sage, thi. Quicksilver strain'd through leather ziii. Oil of Bayes, Chamomil, Worms, an. Zi. of Spike Zis. Brandy Zi. yellow Wax Zii. Terebinth, wash'd in Succo Enulæ Ziii. Powders of ground Pine, Sage an. Zii. warm the Grease with the juice of Sage, till the juice be dissipated,

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ted, mixing therewith the Oils of Camomil, Worms, Spike and wax; stir them with a Spathula till the Wax be well mixt, then taking them from the fire, add the Ol. Laurin. In the meantime let the Mercury, extinct with part of the Grease and Terebinth, be accurately stird in a Mortar; after mix all together by moving them well, then add the Powders and Brandy, and stirring much again, F. Ung. ex atre.

Unguentum Rosatum.

Is good to allay the heat of Phlegmons, and Erysipela's, Excoriations, easeth hot pains of the head, from heat of the stomach and liver; and is thus made:

Rose leaves an. Hi. let them be macerated seven days, then boil them over a gentle sire, and strain them, then with the like mixture of fresh Roses bruised, let them be macerated as many days, then boil them and strain them as before; at length pour on zvi. of the juice of red Roses, oil of sweet Almonds ziv. boil them with a mild sire, to the absumption of the juice; strain it, and make an Unguent s. a.

Unguentum Tutia,

Is a good dryer, and is used in distillation of the Eyes, and is astringent, cooling, stopping, for fore Eyes mix it with Diapompholigos; it is thus made:

B. Tutty stone prepared 3 ii. Calaminaris stone, often burned, and quenched in plantain water 3i. and with Ung. Rosat. 15. 15. F. Ung. s. a.

Unquentum Nervinum,

Cures cold Diseases of the Nerves, and all other parts of the Body; anoint the Sutures, nape of the Neck, and back Bone, the stomach and soles of the Feet likewise:

R. Cowslips and the Flowers, Sage, Chamepytis, Rosemary, Lavender, Bays, and their Berries, Camomil, Rue, Smallage, Melilote with its slowers, Wormwood, an Mj. Mints, Betony, Penyroyal, Persly; Centaury the less, St. Johnswort, an. Msf. Oil of Sheeps, or Bullocks Feet, bv. Oil of Spike, 3sf. Sheep, or Bullocks Suet, or the Marrow of either, this the Herbs being bruised and boiled with the oil and Suet, make an Ointment. S. A.

Unquentum Nutritium, or Tripharmacum,

Is used in curing Erisipelas, excoriations or bladderings of the skin, and such as are called the shringles. It is good to take out the fire in burnings and scaldings, and it hindreth the falling down of any moist humor to Ulcers in any part of the body, being spred upon cap-paper thin, and laid over the whole distempered part; also against any slight scabiness, or itching humor, whencesoever it is: The Composition is as followeth:

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R. Litharge of Gold, searced very fine, the Oil of Roses thi. Wine-vinegar, ziv. put the Litharge into a mortar, pour into it now a little Oil, then a little Vinegar working them up and down very well, until the Litharge hath drunk up all the liquor, and come to the consistence of an Ointment, and white.

These are Unquents very necessary for a Chirurgion to have continually in store; for with these he may be able, through his own practice, to dress any Wound, Tumor, Ulcer, Fracture, or Dislocation, if he be ingenious, from the first to the last. Next we will look what Oils are fitting to be had, and those I conceive may be such as follow: But first to premise something of Oils in general.

Of Oils in general.

A LL sublunary things living are governed by a certain natural heat, and radical moisture, familiar to, and proper for them, which is aerous, fat, and substantistic, which may either naturally or artificially be separated from its matter, whether it be Plant, Mineral, Animal, or its Excrement; according as each partakes thereof, more or less. And this is apparent to the eye, for there is scarce found any body, which cast into the fire, will not produce some same, a certain sign of an aerous, fat and substantial humor, which being separated from its matter, we call Oil. So that from hence we may see, that Oils are Natural or Artificial.

Natural is made by the heat of the Sun, drawing from within outwards; or by that which is included in the bowels of the earth: For an Example of the Sun, Elaomeli, according to Dioscorides, comes out of the branches of certain Trees, which grow in the Territory of Palmyre, a City in Syria. Balfameleum or Opobalfamum comes from other Trees, which grow in Judea, and now in

Egypt, and Grand Cairo.

For an Example of Oils which come naturally from heat enclosed in the bowels of the Earth, I shall mention Ol. Petroleum, which comes naturally from certain Rocks in Italy, whence it takes it's name; of these I shall not make any longer discourse, but of those only which are prepar'd by the Art of the Apothecary, the Physician ordering.

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Artificial Oils are either simple or mixt: the first is made by expression, or distillation; by express, juice of Fruits, Berries, Oleaginous Seeds, which are bruifed and preffed till Oil flows from them, and so are made Oil of Nuts, Olives, Almonds, &c. by distillation Oil is drawn, by the hear of the fire, from Woods, Roots, Gums, Rofins, Seeds dryed, as Juniper & Tartar, Tyles, &c. The Compound is made of simple Oil, wherein herbs and other things are infused, or boiled, till the verine of the Simples are almost exhausted, then 'tis to be press'd and kept for use. To refrigerate, we use Oil made of unripe Olives, before they begin to change their color, call'd by the Greeks and Latines Omphacinum, and Omotribes, i. e. crude and aftringent, but to calefie, commune Ol.ie. made of ripe Olives press'd, the stones taken away; to thi. of Oil, take 3 iii. of Herbs, &c. Flowers are to be insolated, for they will not bear coction. If you boil your Oil, you must add the fourth part of some proper juice, of Wine or Brandy, and the Liquor must be all washed.

ed, and then a drop thrown into the Fire, will flame without noise, when 'tis almost cold

press it.

A Compound Distillation is called Balfamum, because 'tis supposed to supply the virtues of the natural. Now natural Balfam penetrates, dries, and preserves Bodies from putrefraction, therefore we choose Simples that relist Poison for the compesition of the artificial, as Myrrhe, Aloe, Thus, wherewith the Agyptians did formerly keep dead Bodies: to which add Mel, Terebinth, Gum of Ivy, Brandy, Galbanum, Styrax, Lig. Aloes, Galanga, Nutmeg, Cloves, Mace, &c. first comes out a water, which drunk is very good for cold diseases, then a yellowish Oil, which wonderfully penetrates, chiefly proper for cold diseases of the Nerves; lastly, a very red, thick Oil, more effectual.

Of Oils in particular, and first of Oil of Roses,

Is anodine, and doth refrigerate and corroborate, and therefore is good against hot Diseases, as Erysipela's, &c. and is thus made:

R. Oil of unripe Olives wash'd, the i. in the which you shall infuse Ziv. of unripe red Roses, stamped in a wooden Mortar; and, in a glass

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Vessel, and set them a week in the Sun, shaking them; then boil them a little in Balneo, and strain them, and add as many Roses, as you did to the former, shaking them every day; do thus three several times, and then set them up so, or strain them out, which you will. This is called Ol. Rosatum Omphacinum.

Now there is another made of ripe red Roses, and ripe sweet Oil, often wash'd, after the same manner, only the third insolation must be continued forty days, that done, keep the Oil with the Roses without expression; and this is called Ol. Rosaceum completum.

Oilif Dill,

Is anodine and comforting, it concocteth crude Tumors, causeth sleep, mitigateth the head-ach, refresheth the wearied Members, strengthneth the Sinews, discusseth Wind, is profitable for Convulsions, and assugeth aches, easeth pains, and hath many other good uses; and is thus made:

R. Oil of Olive, complete to i. Flowers and Leaves of Dill 3 iv. make three several infusions, as you did your Roses; to the last infusion, you must put 3 iv. of the juice of Dill, and boil the Oil gently, until the juice be consumed.

Oil

Oil of Camomile,

R Esolveth moderately, and calesieth, is good for the Colick, Stone, Wearinels, and for Aches, is also very convenient in Clysters, for all gripings and torsions of the Guts, and yieldeth great comfort to the Intrails, by the good odor and warmth thereof. It is made by insusion forty days, with the Flowers and Oil Olive complete, as in Oil of Roses.

Oil of Worms.

Helpeth the aches of the joints in any part of the Body, and doth strengthen and comfort well the Sinews weakned and pained; and is good against Convulsions Palfies and Cramps; and is also a good balm for wounded Sinews; and is made as followeth:

R: Earth-worms HB. wash'd in water often changed, then in Whitewine, in which let them be macerated the space of an hour; then casting away the Wine, put the Worms into a double Vessel, pouring upon them HB ii. of Oil Olive, White-wine HB. Boil them in a glased Vessel, until the Wine be consumed, then strain it through a bempen cloth, and put it up.

Oil

Oil of Lillies,

A Ssuageth pain, mollisheth hard Tumors, doth much mitigate the violence of Diseases, and is very effectual against pains of the Breast and Stomach, and allayeth all the inordinatness of the Reins and Bladder, and is good, with other unctions things, to anoint the lower parts of Women in Travail; it is made as Oil of Roses.

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Oleupi Excestrense.

M Ay ferve in lien of all hot Oils, and is good to anoint the Limbs of such as are lame, by reason of some cold, bruise, sprain, c. and is thus made:

R. These herbs, viz. Wormwood, Centaury, Maudlin, Fenel, Hissop, Bays, Majoran, Balm, Penyroyal, Sabin, Sage, Thyme, an. Ziv. Southern-wood, Betony, Ground Ivy, Lavender, an. Zvi. Rorismar. to i. Flor. Chamomel, Broom, Lillies, Elder, Cumin, and Fenel-seed, black and white Ellebor roots, the bark of Ash and I imons an. Ziv. Euphorb, Mustard seed, Castor, Pelletory, an. Zi. Oil to xvi. Wine to iii. the Herbs, Flowers, Seeds, and Euphorb. being bruised, the Roots, Barks and Castor cut small, and

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and macerated a whole day in a warm Bath, in the Wine and Oil, and then boil'd over a gentle Fire, till the Wine and moisture be wasted, strain the Oil, and keep it for use.

Oil of Violets.

Cools, is anodine, &c. is made as Oil of Roses Omphacine.

Oleum Nymphea.

C Ools more than Violets, provokes fleep, tempers the heat of the Reins and

Liver, helps the pain of the head.

Note that Oils are easily incensed, so that if you use cooling ones, you must repeat them often; if you wash them in Spring-water, they will be the cooler.

Oil of Fox,

Is good for pain in the joints, Gout, Sciatica, and cureth the ach of the kidneys and back; it is compounded after this manner:

R. The fattest Fox you can get, of a middle age, and well hunted, and newley kill d in Autumn, garbish him quickly, slay him, cut him in small

small pieces, and break all his bones well, then boil him in White-wine and Spring-water, an. Hoi. scumming it well with salt water ziii. the tops of Dil, Thyme, Chamepityos, an. M. i. then strain them hard, and boil the same with Hiv. of old Oil, slowers of Sage and Rosemary an. M. i. then the wine and waterish moisture being wasted, strain them hot with a Press; lastly, keep the Oil, separated from the aquosity, for use.

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if n Oil of Ambar, is of so great virtue, that it hath been called Oleum Sacrum & Benedictum.

It's made by diffiliation, and is very good for the pain of the head, resolution of the finews, and Falling-evil; if one drop or two betaken with water of Betony or Lavender, or in fair water, it preserveth from Poyfon; and mixed with Parsley-water, or Malmeley, it is a fingular remedy in discusfing diseases of the Reins and Blader, bringing forth the Stone, and opening the passage of the Urine; it profiteth in the Colick and Strangulion; four drops put into a little Angelica-water, and so given to a Woman in travel, refreshesh all the weak faculties of. the body; confirmeth and openeth the brain; and is extolled by Crollins, for the admirablest medicine in the Apoplexy and Epilepfie: also for the Plague, if one drop be rubbed

bed on the nostrils morning and evening, it preserveth the party; to one infected, it is given in Carduus-water. In the Fit of any of the aforefaid diseases, it is good to anoint the nape of the neck, back-bone and nostrils; or to cast a drop or two upon the coals, and anoint the Patient's head over them: If you anoint a few drops of it upon the breasts and nostrils of Women affected with the disease of the Mother, it heipeth it, and keepeth it in his place; it is available in fainting, or the passion of the heart; in Agues three or four drops being taken in Carduus-water, at the coming of the Fit, and fo fweat upon it, and the Ague will be gone: It is good to dry a catarrhous rheum: It cures the Tooth-ach proceeding from cold defluxions, if you mingle it with Plantan-water, and gargarize it. In the Yellow Jaundise, given with water of Endive, Cichory or Selandine; in retention of Women's months, feven or eight drops in Balm-water helpeth; in vomition of Bloud, three drops given in Colt's-foot-water, Tormentil-water, or water of Sloes, it stayeth it:

It cures the Vertigo in the head, the Megrim, and Astonishness; taken in Fennel-water, it mendeth the sight, and it helpeth the stitch in

the fide, and is thus made:

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B. Tellow Ambar one part, powder of Flints calcin'd, or powder of Tyles two parts, mix them, and put them into a Retort, and distill them in sand; keep the white Oil which extills sust apart, continuing still the distillation, as long as any Oil will drop, afterwards let both be restified apart, with a sufficient quantity of water,

Oil of Nutmegs,

DRunk with wine, driveth down women's months, and also the quick and dead fruit; the same it doth if it be given in a fpoon with a little fugar; being taken with Wine, it takes away all pains of the head coming of cold; it comforts the Maw, and opens the Liver, Milt and Kidneys; it is excellent against beating of the heart, and fainness and sooning, if ye drink thereof, and anoint the region of the heart therewith; it makes good bloud, and expelleth flegmatick and melancholick humours, and makes a man merry; being used at Night, it takes away all fancies and dreams: If any had a wound or a broken rib by a fall or stroke, let him drink this Oil with any wound-drink, and it will help marvelloufly; it is good in all filthy fores, and for all cold diseases of the joints and

and finews; it makes sweet breath; it helps the Spleen, if the left side be anointed; it helps all affects of the bladder, if it be drunk; and is thus made:

Re Nutmegs bruised to v. Spring water to L. macerate them the space of four and twenty hours, then distill them in a large Limbeck with a cooler.

Oil of St. John's Wort compounded.

IS an admirable balm for wounds, being used as hot as it can be endured, and at the first dreffing hotter: it is a fure medicine for all venomous wounds, all bitings of mad Dogs, or of venemous Worms, very hot applied, and the parts about anointed therewith warm, and a good Cordial given inwardly. It is good in wounds either incifed, contufed, oa stabbed, and is indeed so excellent, that you need use no other Oil. It is a comfortable medicine against all pains, aches and witherings of the outward Limbs, proceeding of cold causes, using it warm with good friction, and a plaster of Burgundy pitch spred on leather, and applied thereon, or rather the stiptick plaster of Paracelsus, or such like; the Composition is as followeth:

R. Strong White-wine & iii. Seeds and flowers of St. John's wort four handfuls, bruise them, and macerate them in a glass vessel well stopped for three days, then boil 'em in Balneo, and strain hard, and put to the liquor more stowers and tops of St. John's wort, as you did before a doe this three times, and then strain it, and put to the liquor for every pound, old Oil to iv. Turpentine & vi Oil of Wormwood & iii. Dittany, Gentian, Holy-thistle, Tormentil, Ladies-thistle, sweet Calamus, of each & ii. Worms often washed in White-wine & ii. stop them close, and sun them forty days, then put them up.

Oil of Elders.

L the obstructions of the Liver, helpful for the joints and nerves pained, the parts grieved being anointed therewith: given in Clysters it provoketh stools, healeth the yellow joundife, amendeth belly-ach, and easeth the pains thereof, and is made of Elder flowers and Oil olive, as in Oil of Roses.

Linseed Oil, or Oil of Flax-seed,

Is anodine, cureth Convulsions, mitigateth the hardness of the arteries, muscles and nerves, assuageth the pain of the piles or hemorrhoids,

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morrhoids, and helpeth the unnatural clefts, chaps and fissures of the fundament; it is used with good success to anoint the secret parts in child birth, and in pultesses for Women's fore breasts. It is made by expression, bruising your seeds, and putting them in Balneo sour or sive hours, and then strain them with a Screw-press.

Oil of Whelps.

This Oil is of worderfull force to assuage pain, to brink shot-wounds to supputation, and cause the falling away the Escar; it is thus made:

R. Oil Olive to iv. boil in it two Whelps newly whelped, until the flesh part from the bones; then put into them of Earth worms prepared to i. boil them again, and strain them hard, and put to the Oil, Cypress Turpentine 3 iii. Brandy 3 i. mingle them according to Art.

Oil of Bays.

Is a medicine calefying, mollifying, opening, and discussing, and doth much mitigate the Colick, delivered into the body by Clyster. It is a present remedy against cold griefs griefs of the Brain, Nerves, Arteries and Loins, the Parties anointed therewith. It is good for the Palfie, Sciatica, the hardness and pains of the Spleen; and is much used, as well to cure the Scab and Ringworm, as the Scurvy. The best is brought to us from the Fortunate Islands.

Oil of Sweet Almonds

Doth lenifie the roughness of the Breast and Throat, as also the hardness and dryness of the joints. It is good against the Consumption of the Lungs. It is also of good use to be drunk in the Hectick Fever. It stayeth the Cough and assuageth the heat of the Urine, healeth Ulcers by injection, is very good in colica, or iliaca passio, to be drunk and administred in Clysters, and is thus made:

24 Sweet Almonds dry, and well rubbed, q. f. beat them well, and put them in a Press, and press out the Oil without heat.

Oil of bitter Almonds

Doth open Obstructions, discusseth Wind and Vapors, but chiefly it healeth Deafness, the hissing and pain of the Ears, lenisieth the hardness of the Sinews, and maketh

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50 VADE MECUM: Or,

keth the Face and Hands fair, and is made as the Oil of fweet Almonds.

Oil of Vitriol.

Omforteth the Stomach after a wonder-ful manner, and stirreth up the Appetite. It defendeth the whole Body from Apostemes and Inflammations, and therefore it is used with good success in the Plurisie, and alfo in vulnerary Drinks it is approved good. It helpeth the infirmities of the Lungs, taken with the Water of Fennel or Fumitory. It cutteth away the melancholy humors from the Stomach, being taken with Balm-water. It confumeth Phlegm, cures the Colick, and the Loofness of the Belly. It quencheth the thirst in Fevers cures the Hicock, and Loathing of Meat. It attenuateth the Blood, defendeth wounded parts grieved from fear of Gangrene, or Putrefaction of the Blood. It conglutinateth Ruptures as well of Bones as Veins; and doth exceedingly comfort and corroborate all the parts of Man's Body, and may well be numbred as a principal amongst cordial Medicines. It is also a very good Medicine, not only in preventing the Scurvy, taken inwardly, but also in the Cure of the Scurvy many ways; both inwardly taken with any comfortable Wine, or with Beer for need or

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to make a Beverage therewith; and daily to ufeit in finall quantity, namely, four drops for a Dofe. In the Calenture, it excelleth all other Medicines, taken in Plantan, Sorrel, or any other Water, or only in fair Water: It is good to rub foul black Teeth, to make them clean and white, but use it not often, for then it will confume them. In Ulcerations of the Month, Throat, or Uvula, that refift ordinary Medicines, touch the ulcerated part but once with this Oil, and the Ulcerations will heat very fast afterwards with any ordinary medicines and helps, remembring, as cause shall require, to use due Evacuations, or Phleboto ny. It is good in the Squinancy or Angina, used certain drops in a fit Gargarism or Lotion, namely, to make it fomewhat fowre, and then gargarize warm therewith; for it mightily quencheth Inflammations, and tempereth well the Blood; and being likewise a little thereof given to drink, namely, fix drops, in fuch a cafe it is much the better; always remembring that in all fuch Diseases you cause Lookness of the Beffy, and fometimes Phlebotomy. Moreover, in Ulcers and Fiftula's, scarce a better Medicine is found to inlarge a strict Orifice, remove a callus, or to prepare any inveterate Ulcer to good healing, only by touching it with Lint on the end of a Probe, thereby putting

putting the Medicine to the place where the Disease is. Is a good corrective in all purging Medicines, and helpeth them to do their office; for it comforteth the whole Body, and giveth a grateful tafte almost to any Medicine. It is also good to a weak Stomach oppressed with phlegm or flime, and helpeth Appetite, taken in Conferve of Roses. There is no Medicine more precious in pestilential Fevers. The true and utmost Dose cannot be justly fet down, but must be made by the taste, putting in fo much as may make the Vehicle or Medicine sharp or fowrish; for your Purges they shall only be a little sharpned with certain drops thereof, only to alter a little the tafte; but in the Calenture, ftrong, or peftilential Fevers, a greater Dose may well be taken according to discretion and judgment: But note this, That if you put any of it into any liquid Medicine, as Barly-water, Juleps, or fuch like, which you intend to divide in feveral Doses, let the Glass be always shaken well before you pour it out, else the Oil will lie at the bottom, and make the last Dose not only too sharp if taken, but also dangerous.

Oil of Sulphur.

Is good to make the Teeth white, to take away the Morphew, cure Veneral Ulcers, expelleth diseases arising from wind or cold. It is good against the Falling-sickness, shortness of Breath, evil affections of the Lungs, easeth the Tooth-ach, and is (being well prepared) a true cordial Medicine.

Oil of Turpentine,

Is taken inwardly, against the Stone, the Cholick, cold and windy affections of the Breast. It is outwardly used to heal sinews wounded, or troubled with any intemperature; also to fill Ulcers with flesh, and knit them up, having no cicatrize on them.

Oil of Spike.

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Doth calefie, attenuate, discuss, and is very profitable to them that have the Gout, proceeding of a cold cause, or to comfort any member benummed: Also it is good again the Falling-sickness, and Convulsions, the Tempils, and the Nape of the Neck and Spine, yea, and the whole head to be anointed the rewith.

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Oil of Myrtles,

REfrigerateth, astringeth, and comforteth, but properly the Heart, Stomach, Brain, and the Nerves. It is good in Fractures, for it cools, and resists putrefaction. It is made as followeth:

R. Myrtle Berries bruifed, and sprinkled with assringent wine to i. juice of the leaves to so. Oil of unripe olives to iii. steep the berries in the Oil for the space of 24 days, then boil them and strain them, and put in more berries: Do thus three times in a double vessel, after the third straining add the juice, and boil it to the consumption of that juice, and put it up.

Now for Balfams.

And first of Balfamum Vulnerarium,

Which is also call'd Mirabile, by reafon of its great and wonderful Virtues, and Cures it hath perform'd, when other means have been ineffectual. For it cures Wounds and Ulcers, and is good against the Palsie, and weakness of the Nerves, and pains 5,

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pains in any part, from a cold cause, and is thus made:

R. Of the leaves and flowers, with the seeds of Tutsan, the tops of St. John's wort an M. ii. Ground Ivy, Sage an. M. S. macerate them in a glass'd Vessel for two days, in the ii. of the best White-wine, then add the its. of old Oil, let them boil over a gentle fire till the Wine be wasted, strain it, and put to it the i. of Terebinth, Dust of Thus ziv. Myrrhe ziii. Mastich. Sang. Dracon. an. zii. Styrax. Calamit. zi. beat them all over the fire, then put them in the Sun for seven days, and keep it for your use in a Glass, or earthen glass'd Vessel.

The famous Balsam of Guido is of the same virtue; and Petrus Apponensis calls it Medicamentum omnium medicamentorum in celeri cordis roboratione, virium restauratione. Tis thus made:

R. Choice Myrrhe, Aloes hepatic. Spice Nardi, Sang. Dracon. Thuris, Mumia, Opoponacis, Bdellii, Carpobalsam, Ammoniac. Sarcocolla, Croci, Mastich, Gum, Arab Styrac. liquid. an. 3 ii. Ladani, Castorei, an. 3 iis. Mosch. 318. Terebinth the weight of all, being dryed, powder them, macerate them in Wine, and strain them, then mix them all with Terebinth, put theminto an Alembic, there will first come a thin Liquor, then a thick, red, yellowish, which is the best Balsam.

The Spanish Balsam, or Oleum Benedict. they say heals Wounds, even of the nervous parts, in 24 hours space, and is thus made:

B. Oldest Oil 3 iv. Flor. Hyperic. 3 in Terebinth Cypria 3 viii. pure wheat 3 is. Rad. Card. Benedist. Valerian. an. 3 i. Thuris pulverisat. 3 ii. the roots and herbs bruis'd, put them in a glass'd vessel, and put upon them the best Whitewine, as much as will cover them: let them insuse a day, then add your oil and wheat, boil them till the wine be wasted, then strain them hard, add the Terebinth and Thus, boil them again a little, and keep it in a Glass, or glass'd Vessel.

The way to use it is thus:

First wash the wound with White-wine cold, then anoint the wound with this oil warm; if this cannot be done, inject it with a syringe presently join the lips of the wound together by ligature, suture, or glew, then anoint the neighbour parts with the said oil, but upon the lips of the wound being join'd, lay a cloth or lint moistned in the oil, and upon that another cloth dipt in black wine, above all a dry linnen cloth, then rowl it so.

Lucatulli's Balfam,

Is good for Wounds, being poured in hot. In Bruises, Ulcers of the Reins, Stone in the Kidneys, or Bladder, with difficulty of making water, I use to give one drachm in Sack for Bruises, in white-wine for the Stone. It is made as followeth:

Ry. The best yellow wax to i. melt it over a gentle fire in a like quantity of Canary; then add of the best Oil of Olives, Venice Turpentine, washt white in Rose-water of each to is. let them boil upon a gentle sire, till the wine be evaporated; then taking them from the sire, sprinkle in 3 ii. of red sanders sinely powdred; so stirring them continually till they be cool, your Balsam is artificially made.

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Of Waters.

And first of Mint Water.

IT warmeth and strengtheneth the Stomach, Liver, Spleen, or Milt, helpeth Concoction, stayeth Vomit, is very cordial, and is distilled with Spear-mints, and white-wine, adding

Water of Carduus Benedictus,

E Afeth the pain of the Head, confirmeth the Memory, cureth the Quartan, provoketh Sweat, and comforteth the vital spirits, and is made by distillation.

Treacle Water,

Is good in the Plague, or pestilential Fever the French disease. It killeth Worms, helpeth the trembling of heart, and is good to be mingled in Diaphoreticks. The manner of making it, is as followeth:

R. The juice of green Walnut-shells to iv. juice of Rue to iii. juice of Holy Thistle, Marigolds, Balm, of each to ii. roots of Butter-Burre to is. roots of Bur-dock to i. roots of Angelica and Masterwort, of each 3 vi. leaves of Scordium four handfuls, old Venice Treacle, Mithidate, of each 3 viii. good Canary wine to xii. of the sharpest Whitewine vineger to vi. juice of Limons to ii. Digest them two days in Horsedung, or Balneo, in a Vessel well closed, then distil it in sand.

Water of Damask Roses,

Doth refrigerate, and comforteth the heart, is good against swowning, and causeth sleep.

Red Rofe Water.

Oth refrigerate, bind, and corroborate the vital and animal faculties; benefiteth the Head, easeth the pained Ears and Eyes, and doth good in Inflammations, and is profitable in Medicines against a Dysentery.

White Rose Water.

Is very good to put in Collyries for the Eyes.

Plantan Water;

Is aftringent and fanative, good for them that are in a Confumption of the Lungs, in a Dropfie, or that have the Bloody flux; good also against the Quartan Ague. It cureth the Ulcers of the Reins, Bladder, and Exceriations of the passage of the Yard; and being drunk, helpeth against ardent Urine, or the sharpness of the water.

Balm

Balm Water

HAth a great respect to the heart; a great cordial, and a good smell and taste. It is more proper to Women than Men; for it much respecteth the infirmities of the Mother, and is in the times of their pains very prositable to take a little of it, for the safer provoking of a speedy delivery. The way to distill it is thus:

R. Balm leaves dry fbii. macerate them in fix Gallons of Brandy for 24 hours, then distill them with an Alembic, adding to every pound of distilled liquor fine sugar 3.ii.

Angelica Water

Ay ferve instead of Treacle and Mithridate for a preservative against the Plague, or any insectious Air; for there is no one thing more commended by ancient and modern Writers in that kind, than Angelica is, whereof there is good experience. It is also very stomachical and cordial; and being truly made, will retain its strength and virtue Forty years and more; it is made as the the former:

Wormwood Water.

This Water is very gratefull in the Stomach, for it is a Balfam thereunto; it confumeth and breaketh Wind mightily, and killeth Worms, hindreth Vomiting, provoketh Appetite, is very good against pains in the Head, proceeding of a cold cause, and is very cordial. It is made as the former, adding half a pound of Anniseeds.

Anniseed Water

Is very excellent against wind in the Stomach, or elsewhere in the Body; and against Asthma, Ptisick and shortness of breath. It also breaketh Phlegm, and warmeth the Stomach; and is distilled from Anniseeds well macerated in Brandy, as the other.

Cinnamon Water

DOth comfort and Strengthen the Stomach, the Liver, the Milt, the Lungs the Heart, the Brain, and the Sinews, sharpneth the Sight, is good against Venom, as also the stingings and bitings of venomous Beasts, helpeth a bad or ill savouring Breath, is good against loathing of the Stomach; and where MIN CHEROMETOR

where you desire to warm, to open, to attenuate, digest or corroborate, in all such cafesthis pretious Liquor excelleth, and is made as the former.

Doctour Stevens's Water.

and Alexander and American State

Is a notable cordial Water, comforts the Head and Heart, yea, and all the principal faculties of the body, both animal, vital, and natural, if it be truly prepared. It helpeth all cold diseases, Palies, Convulsions, Barrenness, Tooth-ach. It killeth Worms, cureth the Dropsie, Stone, Stinking-breath, and prolongeth life, and is made as followeth:

R. Cinnamon, Ginger, Galingal, Cloves, Nutmegs, Grains of Paradife, Annifeeds, Fennel
feeds, Carroway feeds, of each 3 i. Thyme,
Mother-thyme, Mints, Sage, Pennyroyal, Pellitory of the Wall, Rosemary, Red Rose Leaves,
Camomil, Origanum, of each one handful. Infuse them all 12 hours in 12 pints of Gascoin
Wine, then distill them in B. M. S. A. having
this, you need not Aqua Coelestis, Mirabilis,
nor Imperial, or any such like, but this may be
for all.

The common Lotion

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Is used in Ulceration of the Mouth or Gums, in griefs of the Yard, as well within the passage, as also between glans and preputium. There are divers forts according as occasion offers, but that which I mean here, is onely made of Sage, Rosemary, Woodbine and Bryer tops boiled in water, adding Honey or Sugar, and Allom; or Lapis Medicamentosus, or Sal Prunel. Put a Rag on your finger, or on a stick, and dip it into the Lotion warmed, and rub the Gums hard therewith, and the ulcerated parts, until they bleed.

Strong Lie

Is Capital Lees, and is very necessary to mollifie the White-caustick when it groweth dry; as also if need be, by decoction, to make a Lapis Infernalis for to make Issues, or break Apostemes. The Liquid-caustick is made of unslaked Lime, and Capital Lees, boiled together to the thickness of an Unguent, and applied as hereafter shall be shewn.

Vineger of Wine

HElpeth the unnatural swellings of the Belly, and also cureth the fluxes of the Belly and the Stomach, the parts grieved being fomented therewith. It stayeth the inordinate menstrual fluxes, the region of the Liver, or the beating parts fomented therewith warm, namely, with Stuphes wet therein. It is good against vomiting, the Stomach outwardly fomented with warm Stuphes wet therein. It also discusseth and dissipateth violent hot Tumors in their beginnings, yea, even those which are named Panaritie, or, as some term them, Felors. It excelleth in Cataplasms, as also in Fomentations, provided the place be not excoriated: in hernia bumorali, In the falling down of the Fundament it is approved good, fometimes with Wine used warm to foment the part withall, as also to be cast on Bricks to receive the fume thereof. In the hot Gout, and in all Inflammations, as the Rose, or Ignis Sacer, or, as some call it, St. Anthony's Fire: it is a precious help also by way of Gargarism. It is an approved remedy against Angina, or any sudden inflammation of the Columella, or the Amygdals of the Throat; and if you mingle with it Oil of Roses, you make it the better for all the aforefaid uses. Vine-

Vineger of Roses

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Is very cordial, helps the Stomach, refresheth Nature weakned, and is good against the fainting, and great weakness of the Spirits: But if the Artist have no Vineger of Roses ready, he may mix with wine vineger a little Rose-water, and it will doe almost as well. It is thus made:

Red-rose buds almost blown, being fresh, and the leaves clean picked from them that are withered and naught, gathered very dry, and then spread abroad in the shade to dry, about three or four days thi. Wine-vineger twelve pints. Set them in the Sun forty days, then strain the Vineger, and put it up; but if you will have it more strong of the Roses, then make a second infusion of fresh leaves.

Spirit of Wine or Brandy

of thing. It is the truest of all Cordials. It preserveth the Body from putresaction, and in every cold oppression of Nature it is a true helper; for the Cough, and all distillations of Rheums and Fluxes, it is a perfect help. It comforteth the Stomach, and proveketh

provoketh Appetite. It helpeth those which are thick of hearing, one drop daily put into the Ear. It preserveth a man in health, if every Morning and Evening he take certain drops thereof; and defendeth the Body that taketh it, from the oppression of infectious Air; and (being sick) almost in any disease, it may safely be given as a true restorative Medicine. It is good in Wounds and Ulcers, of which in another place hereafter we will make mention; it is to be had at the shops.

Of Decoctions.

And first of the common Decoction for Clysters.

THE Artist is always to have in a readiness the Simples for this, for 'tis oftness used: of Clysters more hereaster. It is thus made:

B. Mallows, Violets, Pellitory of the Wall, Beets, Mercury, an. M. i. Flor. Chamom. Pug. ii. Sem. Fan. 315. Lini 3ii. boil them in q. s. aq. commun. ad thi. in this you are to dissolve your Electuary, Oils, &c. as you will see.

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Decoctum Epithymi, is

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A Sovereign remedy to purge Melancholy, and adust Choler: Two ounces of Sena in lieu of one will make it work a great deal better, and not weaken so much; or if you add \ni i. 15 or 10 grains of Pul. Diasenna to \exists iv. of the decoction is a Jewel in Melancholy diseases; or one ounce of Syr. Epithymi, or \exists i. of Syr. de pomis purgans. It is thus made:

Raisins of the Sun stoned, Epithymi, Senna, an. 34. Fumiter. 318. Maudlin 3v. Polypody 3vi. Turpeth. 318. Goats or Cow whey thiv. let them all boil (except Epithym.) to this. then add Epithym. boiling them a walm or two, take it from the fire, and add black Ellebor. 318. Agaric 318. Sal. gem. 318. macerate them ten hours, then press them hard, and strain them. The Dose is about 3iv.

Deccetum Senna Gereonis.

S Enna Zii. Polypody of the Oak ZS. Zingib. Zi. Raisins of the Sun stoned Zii. Sebestens, Damask Prunes, of each xii. Flowers of Borage, Violets, red Roses, Rosemary, of each Zii. Boil them in two quarts of water till balf be absumed.

This

This may be a common Decoction for any purge, by adding other simples or compounds, according to the quality of the humor you would have purged; but in its self cis chiefly ordain'd for the purging of Melancholy, and it is indeed an elegant composition and well tasted Decoction: 3i. or 3s. of Syrup of Cichory with Rhubarb being added, or the Syrups in the last Decoction, or Pulv. Diasenna.

Decocium Traumaticum.

B. S Alsaparilla 3is. China 3i. Fennel roots, Burdock roots, Nettle roots, Rhapontic roots, Comphrey roots, Liquirice, and Avens roots, of each 3vi. Arstoloch. long. 3s. White Diptany 3ii. of the leaves of Betony, St. John's wort, Agrimony, 5 nerv'd Plantan, ground Ivy, Bugle, Winter green, Sanicles, of each Ms. Raisins of the Sun stoned 3i. Anise, Coriander, and the lesser Nettle seed, of each 3ii. Juniper Beries 3i. Shavings of Hart's horn and Ivory, of each 3v. Boil them in a sufficient quantity of water to thii. to the straining add White wine 3iv. clarified honey, and white sugar candy, of each 3i. Misce.

In the last Edition of the London Pharmacopæia, by a mistake, was put Hi. of honey and

Sugar candy.

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It is invented for wounded persons to drink, but have a care it be not too hot; but in Ulcers 'tis very proper, if the Patielf ent take 3 iv. fasting in the morning, and as much at four afternoon, it may be instead of 0- a diet drink made of guajacum salsaparilla, China and Saffafras, &c. but in wounds leave out the White wine, or boil 'em in small Ale; this Decoction is also good for Confumptions of the Lungs, spitting of bloud, malignant Dysenteries and Gonorrhœas, after due purgation.

Decoctum Pectorale.

TS good against a Cough, Asthma, &c. most Diseases of the Breast; is thus made:

B. Raisins of the Sun stoned 3i. Sebesten, Jujubes, an. No. xv. Dates, No. vi. Figs, No. viii. French barly 3i. Liquirice 3 S. Maiden-hair. Hyffop, Scabious, Coltsfoot, an. M. i. boil them in aq. font. Hiii. to the wasting of a third.

Lac Virginale

AS invented to clear the Face of Sun-burning, Freckles, Pimples, Ge. is thus made:

R. Roch Alum 3 iv. boil'd in ag, Font. thii. adtertias, then

R. Lytharg.

B. Lytharg. Auri H.S. best Wine-vinegar His. boil them to Hi. mix both the waters together, and shake them till they look white.

Note, When at any time tis left to the difcrition of him that makes the Decoction, or faid q. f. it is understood by some as much water or other liquor prescribed, as will be three or four fingers breadth above the Ingredients to be boiled.

Of Syrups in General.

THE Artist ought to be more diligent to labour in his Art, than to be curious in fearthing out the Etymologies of words; but to satisfie him Syrupus, quasi Syria opos, i. e. Liquor of Syria; it may be because the Phylicians of that Countrey were the first Inventers of it: Or from Syro, Traho, and opos Liquor, because Syrups are composed either of juices, or decoctions of Roots, Herbs, Fruits, Seeds and Flowers, which are ftrain'd hard with the Hand or Press. They are either altering, or purging; and first of the altering, and they are either fimple or compound; the simple are made of equal parts, of the juice of any Herb and Sugar boil'd, ac. cording to Art: you may know when 'tis boil'd enough, by dropping some upon a cold stone, the virtue of the Syrup being the fame of the Herb 'tis made of.

Syrupus

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Syrupus de Althea

Is an opening flippery Syrup, good against the Stone, Gravel or Colick, and heat of Urine; you cannot well err in the Dose. 'Tis thus made:

R. Roots of Marshmallows Zii. Grass, Asparagus, Liquirice, Raisins stoned an. Zs. the tops of Marshmallows, Pellitory, Burnet, Plantan, Wall-rue, Maiden-hair, an. Mi. red Cicers Zi. the four greater and lesser cold seeds, an. Ziii. infuse them in three quarts of fair water a day, then boil them till two remains, to which being press d and strain'd, add Hiiss. of white sugar, F. syr. in B. M. S. a.

Syrup of Clove-Gilliflowers

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STrengthneth the Heart, Liver and Stomach, therefore put into most Cordials, and is thus made:

B. Clove-Gillistowers clean'd from the stalks, pour on them a quart of spring water, and let them infuse all night; then with four pound of white sugar dissolved in the straining of the infusion in B. M. make your Syrup without boiling it.

Syrup of Citrons

Is good in Fevers pestilential, and others, quencheth thirst; &c.

Syrup

Syrup of Limons

Efrigerates and penetrates more than the other, good against Worms, corrects Putrefaction and Crudities.

Syrup of Verjuice

CTays Vomiting and Fluxes, good in bilious Fevers, &c.

Syrup of Wood-forrel

IS good in pestilential and other Fevers, &c.

Syrup of Quincies

Tays Vomits and Fluxes, spitting of bloud, defluxions from the head upon the breaft.

They are all made after this manner:

R. Of the juice of any of them strain'd, and depurated, by setling thi. the whitest Sugar clarified and boil'd to the consistence of a Tablet His. boil them a walm or two, and F. Syr. f. a.

Syrup of Red Poppies

IS good in Surfeits, Fevers, &c. Dose to 3i. it is thus made:

R. of the fresh flowers of red Poppies thi. pour

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pour Hiv. of warm water upon them, the next day press them, and make a new insussion, strain them, and boil it in B. M. to a Syrup, with equal weight of sugar.

Syrup of the Flowers of Water Lillies comp.

A Llayeth heat in any part, and in Fevers, and causeth sleep.

He Fresh flowers of the whitest water Lillies the will violets zii. lettice Mii. seeds of lettice, porcelan, gourge, an. zes. boil them in clear water this. to the absumption of one; to the straining add red rose water the white sugar boil d and clarified this. F. syr. in B. M. if you ad the of the juice of porcelane, it may serve in lieu of syrup of porcelane, for the same use.

Syrup of Myrtles

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Is aftringent, good for spitting of blour,

4 Myrtle berries 3iis. red and white sanders, sumach pomegranate flowers, kernels of the berries, red roses an 3is. services cut small this bruise them, and boilthem in clear water this to iv. strain them, and add of the juice of ci-

VADE MECUM: Or,

trons and pomegranates an. 3 vi. casting in by degrees to iv. of sugar, boil them to a syrup, adding the juices towards the end.

Syrup of Roses Solutive,

L Oosens the Belly, purgeth Choler,

R. the iv. of warm spring water, damask rose leaves, as many as the said water is capable to receive, insuse them the space of 12 hours, then strain them hard; in which, being warm, make a new insusion of the same quantity of Roses: Do thus three or four times, augmenting always your quantity of Roses to that of the strain'd liquor; which done, of six parts of this liquor, and four parts of sugar, F. Syr. in B. M. s. a.

Syrup of the juice of Roses, is

PRepar'd, without maceration, of the juice of the Leaves of Damask Roses, with the same quantity of Sugar to the juice (which must be depurated) as above.

Syrup of Wormwood Compound.

This Syrup corroborates the Stomach, causeth an Appetite, discusseth Wind, openeth Veins, moves Urine, and killeth Worms: And is thus made:

R. Common wormwood not too dry, this red roses 3 ii. Indian spike 3 iii. old rich whitewine, juice of quinces, of each the iis. macerate then in an earthen vessel a whole day, then boil them gently in B. M. strain them, and put to them to ii. of sugar, and make a syrup. s. a.

Syrup of Limons, is

Ordial and refrigerating. It doth please and profit the Appetite, and comforteth all that are sick of the Pestilence, or continual and contagious Fevers, as also all Diseases on which exceeding great heat attendeth. It cheareth up the heavy Heart, and dispelleth Sorrow therefrom, and against all obstructions of the Spleen it is a good help, and also well approved in the Cure of the Scurvy. It is made as followeth:

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R. Juice of limons strain'd and purified to i. white sugar clarified and boil'd to the consistence

E 2

of a Tablet His. boil them with a foft fire to a fyrup.

Syrup of Poppies

Ath an aftringent quality, procureth Sleep, helpeth the Cough, hinderesh the humors which distill from the head into the throat, causing a tickling, and is of pretious use against the Palsie, if it be used in the heginning thereof. It is made thus:

He heads and seeds of white poppy and black, of each 3vi. Venns hair 3xv. Liquirice 3v. Jujubes No. xxx. Lettuce seeds 3v. seeds of mallows and quinces tyed up in a fine rag, of each 3is. boil them in eight pints of water, s. a. and to every three pounds strained, put to clarified sugar to ii. F. syrup. s. a.

Syrup of Violets

Doth break the acrimony of Choler, tempereth the heat of the Bowels, bringeth down the Belly by purging. It helpeth the Diseases of the Throat, as hoarsness, and the dry Gough, and is a chief aid to the curing inflammations of the breast. It helpeth the Pleurisse, and quencheth the thirst in Fevers, being put in cooling Juleps, and is cordial. It is thus made:

24 Vio-

His. or a sufficient quantity; put them in a new earthen vessel glased, and close covered, and let them insuse 24 hours, then strain them hard, and in this liquor this. dissolve in B. M. white sugar this. take off the froth, and make a syrup, without boiling s. a.

Oxymel simple, is

OF great use for the cure of inflammations of the Lungs and Throat, helpeth expectoration and difficult breathing, cureth and attenuateth thick and slimy humors, purgeth the intrails without trouble, and is good both in cold and hot affections; and is made as followeth:

4 Of the best aromatick honey despuned this clear spring water things. of the best vinezer this boil the water and honey in a glassed vessel, taking off the spume continually with a wooden spoon, full of holes, then add the vinegar by degrees, boil them with a gentle sure, to the consistence of a liquid syrup.

The victors immore helps four hele

Oxymel compound, is

2 Sed, when you find the other too weak; 'tis good in Asthma, Pleurisie, deob-

structs the Liver, Reins, Spleen, provokes Urine and Sweat; and is thus made:

24 Root of fennel, smalage, percely, butehers-broom, sparagus, an. 3 ii. the seeds of
smalage, perceley, fennel, anise, an. 3 i. macerate them all (the roots being first cleaned, and
cut small, and the seeds bruised) in the x. of
clear water, wine vineger this. the day after
boil them in B. M. to the exhalation of the third
part; to the remainder being strain'd and clarist'd
add thii. of honey, and so by gentle boiling,
and continual despumation, make a thin syrup.
s. a. dose ad 3 ii.

Oxymel Scylliticum simplex.

Cuts viscous humors, helps four belchings, and is thus made:

21. Despumed honey to iii. vineger of squils to ii. boil them s. a. as in other Oxymels.

Oxymel Scyllit. comp.

Is used when easier Medicines cannot expectorate, good against the Falling-sickness, Megrim, cleanseth the Stomach, and Women after lying in. Dose ad 3 i. and is thus made:

4. Origan. Hyssop. Thim. Privet. the lesser, Cardamom. Stechad. an. 3 v. boil them in the iii. of water to one, to the straining add honey the ii. mel passulat. Hb. S. juice of briony 3 v. vineger of squits the is. boil them, and scum them. s. a.

Diamoron, is

Profitable in Gargarisms, against the eating Ulcers of the Mouth. It cutteth away Phlegm, and cleanseth the Mouth and Throat; and by reason of the pleasant taste thereof, it is the more comfortable to the diseased. It is thus made:

4. The juice of mulberries and bramble-berries, gather'd before they be ripe, and before sun-rise, and depurated by setling, of each this honey strain'd and despum'd the ii. let them boil in B. M. to a just consistence.

Syrup of Sloes,

Oth refrigerate and comfort the Stomach, stoppeth Fluxes, healeth the excoriations of the Intrails, and is made with the pulp of Sloes and Sugar.

Honey of Rofes

S Frengthneth and cleanfeth the Stomach, purgeth clammy humors, helpeth concoction with the temperate heat thereof, allayeth and floppeth hot fluxes, the phlegmene of the mouth, gums and jaws. It is fingular good with Oil of Roses for wounds in the head, and putting thereto some Aqua wita, makes it good to heal wounds in the joints, where the joint water gleeteth out. It is thus made:

24 Pure white honey despumed thx. fresh juice of red roses thi. put them into a skillet, and when they begin to boil, throw into them of fresh red rose leaves picked thiv, and boil them until the juice be wasted, always stirring it, then strain it, and put it up in an earthen pot.

Next of Sapa or Rob.

They are made of certain Juices, as of Barberries, Quinces, Cherries, &c. The juice is to be boild'd over a gentle fire, always despuming it to the confistence of Honey; if you add Honey or Sugar, it will keep the lon-

ger; they participate of the same virtue as the simple whereof they are made; to every hi. of juice, take half of honey or sugar.

Of Lobochs.

What the Greeks call'd Eclegma, and the Latines Linetus, the Arabs call'd Lohoch; 'tis used chiefly in affects of the Windpipe, Lungs and Breast. They were invented by the Ancients for divers intentions; to thicken or make thin humors, to deterge, sweeten and correct the sharpness and driness of the Windpipe, &c. They are of a middle consistence, between a Syrup and an Electuary.

They must be of a glutinous quality, that they may not too fast slide into the Stomach; make them astringent in spitting bloud.

They are made of Fruits Seeds, Juices, Gums, Sugar, Sapa, Honey, Syrup, Decoction of Figs, Barley, Mucilage: bruife them, pulp them through a Sieve, make them up with the aforesaid things; Conserves, Pouders, are sometimes added; the Pouder of Linseed dryed, easeth Childrens Cough given with Honey. A Loboch is made of Butter, Terebinth, Sugar, for a Cough from a cold cause; they are taken with a liquirice stick.

Loboch of Colemorts, is

Proper for all affects of the Breaft, &c. is thus made:

4. Juice of red coleworts to i. saffron 3 ii. white sugar, honey an. to so. dissolve your saffron in some of the juice, and boil the rest with honey and sugar (adding towards the end the saffron diluted) to a sit consistence.

Lohoch Sanans, is

Good for those that are hoarse by cold,

R. Garden hyssop, calaminth, an. 3 s. jujubes, sebesten, stones taken out, an. XXX. taisins of the sun stoned, sigs, dates, an. 3 ii. linseed and senugreek an. 3 v. maiden-hair M. i. anise and senel seed, orice roots cut small, liquirice bruised, cinamon, an. 3 s. boil them all s.a. in clear water to iv. to the waste of half; adding sugar penids to ii. gum arabic, tragacanth, dissolved in the said decostion, an. 3 iii. boil them to a syrup, then cut small and bruised pine kernels, 3 v. sweet almonds blanch'd, liquirice, starch, an. 3 iii. oris roots, 3 ii. sprinkle these into the syrup being taken from the sire, and stirred till it begin to be white.

Loboch

Lohoch Scyllicic. is

More gentle than Oxymel, and is thus made:

Take 3 iii. of a squil bak'd in paste, or is root 3 ii. byssop, hoar-hound, an. 3 i. saffron, myrrh, an. 3 sh. honey, 3 iish. bruise the scill in a stone mortar, and with the honey put them to the fire, as soon as they are hot take them away, and springling in the other things poudered, and stirring them with a quick motion. F. Lohoch. s. a.

Next of Preserves.

They are made of Roots, Stalks, Barks, Flowers, Fruits, Pulps, thus.

24. Eringo roots q. v. clean them within and without, taking away the pith, then macerate them a day or two inclear water often changed, then wipe them with a linnen cloth, then take equal weight of white sugar, and as much rose water as will dissolve the sugar, put them over the sire, and scum them, when tis almost boil'd

to a syrup, put in the roots, which are to be boiled till the humidity is almost wasted, and to the form of a syrup.

Thus are preserv'd Roots of Angelica, Borage, Bugloss, Cichory, Enul. Camp. great

Comfry, &c.

The stalks of Artichokes, Angelica, Burdock, Lettuce, &c. are preserv'd before they be quite ripe, (contrary as in roots) taking only the pith; after the same manner.

Barks, as Orange Pills, &c. are preferr'd, by taking off the outward yellowness, and macerating them at least three days in Fountain water, often changing it, then put them into sugar as before. f. a.

Preserve Flowers of Citrons, Orange, Borage, Primrose, & a best re with sugar.

For Fruits. 4 Apricocks, pare them, and take away the stones, and put them into equal weight of sugar dissolved; then four hours after take them out, and the sugar being boil d as it ought, without any new liquor, put them in again to boil together. S. e.

After this way, or little differing, are preferv'd other Fruits, as Barberries, Cherries, Citrons, Quinces, Peaches, Apples, five forts of Myrabolans, Nutmegs, Wallnuts, Filberds, berds, Raisins, Grapes, Prunes, Sloes,

Of any of the Fruits you may preferve the Pulp by boiling them in Fountain water till they be tender, then pulp them through a Sieve; boil the Pulp till the water be confumed in a glas'd vessel, stirring it often, lest it burn to, then to Hvi. of the Pulp, add sugar Hx. and boil it to a fit consistence.

Flowers of Broom, Capers and Olives, are preserved in Water, and Salt, and Vineger; lastly, Cinamon, Rose and Marygold Flowers, Almonds, &c. likewise Seeds and Branches are said to be preserved, but with this difference, that for the most part being dry, they are incrusted with sugar, and are rather

called Confections.

The virtue of Preserves participate of the same with the Root, Stalk, &c. Preserved Conserves are made of Herbs, as Wormwood, Sorrel, &c. Flowers, as Orange, Roses, Borage, and tops of Herbs, as Carduus Beneditt. Fumiter. Balm, &c. Herbs and Flowers, as Eyebright; and Roots, as Enula bruised, &c. Fruits, as Sweet-bryer and Leaves of Seurvygrass, Mints, Rue, &c. they are all made of the triple quantity of sugar, the Herbs, &c. being first beaten pretty small in a stone Mortar, then add the sugar.

Note all are not to be mixt after the fame manner.

manner, for some must be first cut, bruised, and gently boiled, some neither, some one way onely; wherein the Artist by this caution, may shun erring.

Saccharum Tabellatum composit.

Is good to free the Stomach from Choler and Phlegm, and for Worms, is thus made:

4 Rheubarb, \ni iv. troches of agaric, corallin, C.C. burnt, dictamy leaves, worm-seed, purcelan and sorrel seed, an. \ni i. cinamon, zedoary, cloves, saffron, an. \ni is white sugar sinely beaten, \ddagger i. dissolve the sugar in \ddagger iv. of wormwood water, of wormwood wine, \ddagger icinamon water a spoonfull; with the aforesaid species make tablets. S. a.

Saccharum Rofatum Tabulatum

STrengthens weak Stomachs, and comforts the Spirits, stays Vomiting, and pissing Bloud; they are for consumptive People to carry in their Pockets, and now and then eat a little.

Next for Powders.

THey are made of all dry things that may be powdred; they are either altering or purging, internal or external; the purging are made of Purgers and their Correctives with Sugar. Strengthners of the Stomach, are made of Coriander, Anise, Fenelfeed, &c. with Sugar of Roses. Cordial ones are made of proper Powders, simple and compound, adding to 3i. three or four of Sugar of Roses. They are made likewise for the Stone, to move courles, to bind; for obstructions with steel, and openers with equal weight of Sugar. Externally they are made to strengthen the head and other parts, of Roots Fli. Seeds Zvi. Flowers Ziii. Aromatics 3ii. Chirurgical alfo, as Sarcotics, detergent, adstringent, whereof hereafter.

Aromaticum Rosatum

STrengthens the Stomach, stays Vomiting, breaks wind, helps Swooning, Palpitation, Convulsion, Epilepsie, &c. Dose to 3ii. is thus made:

4 Red roses 3xv. liquirice 3vii. wood of aloes, yellow sanders, an. 3iii. cinnamon. 3v. cloves, mace, an. 3iis. gum arabic, tragant. an. Aviii. nutmeg, cardamom the greater, galanga, an. 3i. spikenard, ambargreese, an. Aii. mosch. Ai. F. pulv. s. a. keep it in a glass.

Species Diaireos, is

Ood against Coughs; you may make it up into an Electuary with Honey, or some pectoral Syrup, and take it with a liquirice sick. It may serve instead of Diacolamimbes: Dose 3i. It is thus made:

24 Orice root 3 ss. sugarcandy, species of Diatragacant. frigid, an. 3ii. F. pulv. s. a.

Pul. Diatragacanth. frigid. is

GOod in Diseases of the breast from a hot cause, or putresaction in the parts, take it with Syrup of Violets, Dose 3.

4 Gum tragacamh, 3ii. arabic, 3x. starch; 3s. liquirice, melon, and white poppy seeds, an. 3iii. pompions, cucumers; gourges, an. 3ii. penids 3iii. stowers of water lillies, Di. F. pul. s. a.

Pulvis Haly, is

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Good in Inflammations of the Lungs, Phthysick, Pleurisie, &c. Dose to 3.

24-White poppy seed 3x. starch, gum arabic, trazacanth. an. 3iii. seeds of porcelan, althea, mallows, an. 3v. cucumers, melons, gourges, pompions, quinces, an. 3vii. rasp'd ivory, liquirice, an. 3iii. white ambar 3ii. penids, the weight of all. F pulv. s. a.

Purging Powders, and first of Pulvis santtus, or Diasenna

IT purgeth all humors from all parts, given in Whitewine alone, or with some opening Syrup. Dose to 3i.

4 Senna, cream of tartar, an. 3ii. cloves, cinamon. galanga, ammeos, an. 3ii. diagrydii 3s. F. pulv. s. a.

Pulvis Holland. or Pulvis Senne comp. major

Is of the same nature and dose with Pulv.

Diasenna; and is thus made:

4 Aniseeds, caraway seeds, fenel seeds, cy-

min seeds, spiknard, cinamon, galanga, an. 38 liquirice, ground-sill, zalap. an. 31. crystal of tartar 31. dacrydium, 318. senna, the weight of them all. F. pulvis.

The Earl of Warwick's Powder, is

OF fuch esteem by one, that he wrote a whole Book of it, and commends it in all diseases almost, where purging is requisite.

4 Scammony prepar'd with the fume of sulphur, 3i. antimon. diaphoret. 313. chrystal of tartar, 3ii. M. F. pulv. Dose ad 9 i.

Pulvis Arthriticus.

This is a very fafe and good general purging Medicine. It purgeth all podagrical defluxions, and generally any humor or defluxion of the Body downwards, being given in waters appropriate, to the quantity of one drachm; and it is thus made:

4 Hermodactyls, turbith, diagridium, senne, filings of man's skull, sugar, of each 31. powdered; mingle them, and keep them close in a glass.

Of Electuaries, and first in general.

Lectuaries are fo call'd, because they con-C tain choise Medicaments for inward ute; they are either altering or purging, foft or folid; the fost are made of Powders, Pulps of Fruits, Raisins, Thamarinds, Cassis, Manna, with Honey a little boil'd, &c. The quantity of Powders is 3iii. or 3iv. to every thi. of Honey, without comprehending the Caffia, and other things; which you are to count rather in rank of Honey, or Sugar, than Powders: And here you must note, that the more your Electuary contains of Powders, and less of Honey or Sugar, it is of fo much greater force, but more ungratefull; but that which hath less, is of so much weaker force, and more pleafant to the palate. We shall treat first of the altering, because we must follow the law of methodical curing, first to digest and alter the quality of peccant humors, before we purge them.

Now in particular, and first of London Treacle:

It may be used well in place of Mithridate and Treacle; but because the fresh is the best, I hold it most converient for the Artist to keep the species ready; and when he hath occasion to use any of it, he may put to every ounce three ounces of Honey, and warm it upon the fire, stirring it well until it be perfectly incorporated. — It is thus made:

Re Rasped harts horn, 311. citron seeds, forrel seeds, piony seeds, basil seeds, of each 31. scordium, coralline, of each 3vi. roots of angelica, tormentil, piony, leaves of dittany, berries of juniper and bays, of each 318. marygolds, clove gilly flowers, rosemary flowers, tops of St. John's-wort, nutmegs, saffron, of each 311. roots of gentian, zedoary, ginger, mace, myrrhe, scabious, devil's bit, holy thistle, of each 311. cloves, opium, of each 31 canary winc, as much as shall suffice to incorporate them, honey three times as much as the weight of all; mingle them on the fire, as I shewed you before.

u C B Theriaca Andromachi, or Venice Treaele.

MY ever honoured Master, Dr. Patin, in his Notes upon Guibert's Treatise of the Pest, fays he could write a Volume of what might be objected against this and Mithridate, fo much cried up by Mountebanks and ignorant Empericks, there are fo many absurdities and contradictions to be found in examining these Opiats; and that the Treacle in use at this day, retains only the name, and is altogether unlike that famous ancient Confection: And if any shall object, that Treacle was so much esteemed by Galen, that he wrote two Books of it, one to Pifo, another to Pamphilian: 'Tis answer'd, they were none of Galen's; which may plainly appear from the style and ratiocination, which are far different from his way and method: besides the unusual words, no where to be found in his Works, and the absurd and erroneous Opinions, which he abhor'd, as may be prov'd from the most learned Mercurialis; before him. And farther, If Galen did write those Treatises, one would use no other Argument to refute the use of Treacle made in our days than the Conditions requir'd by the Author of those Books to the legitimate confecting of it. He admits

admits of no Succedanea's; whereas in very many places it cannot be prepared without at least twelve. He commands above all, that the best Cinnamon be procured, wherein, he says, very many Druggists are deceiv'd, which at this day is no where to be had. It may be farther added, in the right dispensing of it, there must be no Error, no, not in the least Simple; for a fault in one Ingredient, overthrows the whole Composition. But I appeal to the judgment of expert Apothecaries, whether there be not above 20 egregious Errata's committed in the choice of the Simples, some being un-known to us, others not to be had, nor brought to us. No one almost but knows what abuse is committed in the choice of Vipers, and that they have not been in use for above these 500 years past, indeed not known; in whose stead are used most poysonous Serpents: And if such a mistake in so clear a matter, what security in the true Balfam and Malabathrum, so pretious, and fetched from remote Regions? At this day the Egyptians put more trust in their Native Balfam, than in any other Remedy. And when good Authours have told wonders of its worth, at last conclude, But'cis no where to be found.

Our Myrrhe also agrees in no way but scent,

fcent, with that describ'd by Dioscorides. We want liquid Ambar, Opobalsamum, &c. or else they bring them to us sophisticate, wanting the true marks laid down by Dioscorides, Galen and Mesues. For Opobalsamum, some use the liquor drawn from fresh Myrrhe, and call it liquid Styrax. But 'tis thought the reason why we have not the true Balm, is that the Great Turk, Lord of those Regions where it grows, and that but in small quantities, keeps it for himself, and to present it to other Kings his Friends and Allies; and permits it not to be sold at any rate whatsoever.

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out nt, No true Cost us, Schenanth, the genuine Diptany of Crete, Ammomum, Calcitis, Terra Lemnia, Carpobalsamum, Wine of Falernum. Our Opium, as Mathiolus witnesses, is not legitimate, and is wholly different from that describ'd by Dioscorides, although it be absolutely necessary, since 'tis the Basis of Treacle.

I abstain from citing Classic Authors, by whom 'tis disapprov'd, for 'twould be too tedious. Pliny inveighs against Treacle, as a bad Medicament. The Moderns condemn it as a confused heap of Simples, without order and method, of which the greatest part is unknown, the other frustraneous, and altogether unsit for the cure of malignant diseases.

And

And to conclude, this great Physician tells us, that Treacle as now made is a pernicious Remedy, badly prepar'd, very hot, and will easily kindle a Fever in bodies subject to it. And which is worse, by its inimicous and estuous faculty, is very apt to produce deadly burning in the intrals; unworthy to be placed amongst Antidotes, because it is indued with no virtue, whereby it may prevent or help pestilential Diseases, as being a meer composition of Luxury.

The same may be said of Mithridate in use at this day, which cometh nearest to Treacle, in its saculties, as being compos'd of most of the same Simples, Herbarum deforme chaos; rudis indigest aque moles multorum simplicium; being, by reason of their too siery nature, acrimony and malignity, averse to our natu-

ral hear.

Moreover, the Receipt of Mithridate, found by Pompey in his Desk, after his death, was made of fo few, and those common, things, that he made but very small account of it, and laugh'd at it.

Antidotus vero multis Mithridatica fertur Consociata modis, sed magnus scrinia Regis Cum raperet victor, vilem deprendit in illis Synthesin, vulgata satis medicamina risit; Bis denum Ruta solium, salis & breve granum JuglanJuglandesque duas totidem cum corpore ficus: Hac oriente die parco conspersa Lyzo. Su nebat metuens, dederat qua pocula tutor.

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So that by these Verses it appears, that it was composed of only two dry'd Walnuts, so many Figs, twenty Leafs of Rue; with a few grains of Salt, which he took fasting against Poyson; but this may serve for three or four Doses. Now if any dislike this simple Antidote, let him use this following Opiat.

4. Of the conserve of bugloss, borage, water lilies and Roses, an. 311. the conserve of marygold flowers. 3x. make an opiatum with syrup of limons; Dose, the quantity of a Nutmeg fasting, drinking a little White-wine after.

This is a most temperate Opiat, causing no heat, or unnatural or undue ebullition of the Blood. But the Learned Dr. Primrose, though he cannot commend this, or Treacle, may be for the same Reasons that Dr. Patin disallow'd them before, yet he would have both kept in shops, or only Treacle, for reverence to Antiquity. For besides many things that we want, as in Mathridate, so there are many things not well prepar'd, as Trohise. de Viperis, Scyllicic. many are needless, as Calcitis, &c. Not that 'tis hurtful in so small a quantity.

quantity, for what evil can there be in the 16 part of a grain to 3i. of Treacle, which is a common Dose? And why should not the decoction of the Squils suffice to mix with the rest, unless you will keep them longer, and then let them be kept condited with wheat-slower and sugar: then the Vipers, they are made into Troches with wheat slower, but 'tis to be fear'd all their virtue goes away in boiling; so they had better be calcin'd: of their fielh, the fat and gall, heads and tails are made Mummy; cut small and wash'd in Brandy mix'd with Aloes, Myrrhe, and Jewish Bitumen, and other dryers, the Spine calcin'd, may be made those Troches.

But then if such Medicines must be retained, if I might be worthy to advise my Countreymen, I would have them to make use of that well contrived Treac's of the Learned College of Physicians of London, than which I know not a better, and that may serve in lieu of either Treacle or Mithridate, as before; as likewise for the Electuary of the Egg, which may very well be wanting for several Reasons too long here

to recite.

As for Confettio Alchermes, 'tis true, 'tis a pleasant one, yet the Pearls and Gold are needless, as not being cordial at all; or if they were, there is no Analogy between our natural

natural heat and them, as to affimilate or overcome them.

The same may be said of Confectio Hiscyn-

thi, and the rest of such stuff.

But methinks I hear fome faying, If you deprive us of the use of these Medicines, &c. What will you substitute in their stead?

I answer Wine, either generous or other, according to the temper of your Patient, Cardiacum quippe Cardiacorum; or you may put some Syrup of the juice of Citrons, or Limons, or Melifophili, Menthe, Caryophillor. de pomis alterans, Julap. Regium, or rofatum, or Julap. violar. or the like, according as the nature of the Difease and Patient require; or boil'd with Mace, Cloves, Nutmeg, Rofemary, &c.

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And Galen used Wine as the great Cordial against Syncopes and Cardiagma's, and continual Fevers, and not your cordial Pouders, or Opiats, &c. which are very costly, tedious, and often inefficacious; but Wine with less cost, and more certainty and celerity performs its office, in both genuinely nourishing, and as the greatest Antidote refisting Poyson, far more infallibly than your fictitious, adulterate Bezoar, Corn. Unicorn. Monocerot. or whatsoever other Quisquilia, introduc'd erroneoully into the practice of Physic, never used by Hippocrates or Galen, or any of the ancient ancient Grecians, that left us the true way of practifing Phylick for the good of Mankind; and not those Arabians, who were a fort of People very like your Quacking, Empirical Crymists at this day, in burthening the World with such an infinite number of naughty, superfluous, and some poylonous Medicines, when as those few used by the Grecians, were altogether safe and salutary; yet might the judicious prosit by many of their writings, being sirst well grounded in the Grecian Doctrine, if their Books were genuinely Translated: But they are so badly done, that they are not to be trusted to by any of a mean capacity or judgment.

To conclude, the use of Wine is prodigious and admirable, if wisely prescrib'd, far beyond any Mithridate, or fort of Treacle, or such like trash, that go vulgarly under the name of Cordials, all which it as far ex-

cells,

Quantum lenta solent inter viburna Cupressi:

And are but despicable, in comparison of it; the chief Cordial, as alone, having the true properties of a Cordial, viz. to nourish, calefie, humest, purge, and corroborate.

Lastly, the great Plutarch tells us, that that raging Pest in Africa, which did so depopu-

late

late Jalius Casar's Army, could no way be mitigated, but by administring generous Wine to the Soldiers, by which, as by a Divine power, it presently ceas'd. As for Martial's.

Profecit poto Mithridates sape veneno, Toxica ne possint sava nocere sibi.

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'Twas by custom that it profited him; and there are a great number of Stories, of people that have eaten great Doses, without any hurt, of Hemlock, Elsebore, Spiders; which is the more to be wondered at, because these are most poysonous, so that some have dyed by drinking Wine only, wherein a Spider hath been by chance suffocated.

Serpents, whereir some have been called Ophiogenes, as it were begot of Serpents, because they feed onely on them; which the Story of Exagon confirms, who, by the Command of a Roman Conful, being put in a Hogshead sill'd with Serpents, receiv'd no hurt, as Pliny witnesses, but came out as merry and blithe, as he went in.

Opium, of which one Lysci is reported to have eaten half an Ounce at one Dose, without any damage.

Julius Casar Scaliger, that incomparable Philosopher, afferts that the Turks most fre-

quently eat Opium, whereby they are more couragious in the Wars both of Mars and Venus.

And the most learned Physician Renodeus, faw a Woman eat half an Ounce daily without any offence.

Anton. Musa Brassavolus, saw one swallow two drachms of Scammony, which only

mov'd him four or five times.

And Fallopius knew a studious Garman, that devour'd an Ounce of Scammony, and was never mov'd: And thus you see that

Objection answer'd.

Thus have I given thee the Secretum Secretorum Secretissimum, as to Cordials, which essure they self, if thou be ingenious, will serve thee to discover more vulgar Errors, in administring other Medicines: so that thou sees for Mithridate and Treacle, you may better use French or Spanish Wine, Diascordium, or Confest. Alchermes; or if only to provoke Sweat, as many use it, the learned Wallaus tells you, that it is onely done by the virtue of Opium, for he tryed them both without Opium, and they would scarce cause sweat. But if you will use Treacle, for all these

But if you will use Treacle, for all these Caveats, then you must be sure to have it from Venice, or Montpelier, which doth the effects of Minhridate Damocratis, and is good against the hoarsness of the Voice, against the

laun-

Jaundies, Dropsie, for wounds in the Intestines, to bring forth the young Birth dead, to expel and take away the Leprosie, and Measles, to revive every decayed Sense, to kill all kind of Worms, to dissipate wind, to comfort the heart and stomach, and to keep the body incorrupt and sound.

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Theriaca Diatesseron,

Poyson drunken, and the bitings of venomous Beasts or Worms. It is also good against all the cold affects of the Brain, as Convulsions, Resolution of the Sinews, Falling-sickness, Cramp, Spasme, the inflation of the ventricle or stomach, against the defect of concoction therein, and against venomous wounds, both inwardly drunk, and outwardly applied. Also it openeth the obstructions of the Liver and Spleen, and thereby preserveth the Body from the Disease called the Scurvy. It procures Sweat very well, being taken in Sack, but is mighty hurtful to women with child, as may be easily known by the Ingredients, which are as follow:

4. Gentian, Bayberries, Myrrhe, Round Birthwort, of each 3ii. Husk your Berries, and powder and searce them; and your Gentian and F 4. Aristolo-

104 VADE MECUM: Or,

Aristolochy must be sliced and dryed in a folded paper, and so powdered and searced, then dissolve your myrrhe in a little sak and put to it of the best honey despumed, the ii. and then sprinkle in your powders, and incorporate them well on the fire; to which being added swo ounces of rasp'd Ivory, its then call'd Diapente.

Confection of Alkermes,

Is a preservative from Apoplexics arising from cold and melancholy humors, doth very much comfort the brain and heart, and is sometimes used very profitably for them that languish away by reason of long sickness, and are subject to swoonings. It is thus compounded:

4. The juice of Paremains or Pippins, of the fweetest Rose water, of each to its. Tyrup of the juice of Kermes to ii. Sugar to i. boil them almost to the consistence of hony, then bring it from the fire, and yet warm, add Ambargriese cut small and dissolved in drops of Ol. Cinam q.s. 3ii. then cast in these following sinely powdered, of the best Cinnamon, the wood of Alees, an 3 vi. leaf gold, 3 i. pure musk, 9 s. make it up according to Art.

Methridate,

Is in quality and virtue like unto Treacle; but more hot and forcible against the poy-Ion of Serpents, mad Dogs, wild Beafts, creeping things. Being used as a Plaster, or drunk, it cureth all the cold affections of the Head, helpeth the melancholick, or those that are fearful of waters. Them also that have the Falling-sickness, Megrim, pain in the Bowels, Ears, Tooth-ach, and weeping Eyes; helpeth the evils of the Mouth and Jaws, being plaster-wise laid to the temples; by discussion giveth case to the troubled with the Squinancy, Apoplexy, Cough, spitting of Blood, Imposthumes, or Inflammations of the Lungs, or any Griefs within the Body. And it is good against the Bloody Flux, Flux of the Stomach, obstructions of the Guts, and against wringing, and tortions in them. Being taken with Aqua-vite, and the decoction of Balaustians, it remedieth Convulsions and Palsie; helpeth the Midriff, wind in the Hypochondria, the pains of the Reins and Bladder; breaketh the Stone, provoketh Urine, and monthly Flowers, expelleth other vices of the Matrix; yieldeth a fingular benefit for the Gout ; profiteth not a little in Quotidians and Quartans, a quantity drunk in Wine being; first

first warmed and then taken an hour before

first warmed, and then taken an hour before the Fit.

Diacydonium Simplex, is

Good against Vomitings and Fluxes, &c.

4. Of Quinces cut small, and boil'd in sweet water to a thickness, thviii. white sugar depsum'd and boil'd to a just consistence the vi. boil them to a thickness.

N. B. When you give Medicines to stay Vomiting give them after Meals; when for Fluxes, before.

Elett. Lenitivum, is

Jen in Fevers without hurt, Dose to

24. Raisins stoned, fresh Polipody of the Oak, Senna, an. 3 ii. Herb. Mercury, M. is. Injubs, Sebestens, an. No. XX. Maidenhair, Violets, French Barly, an. M. i. Damask Prunes, Tamarinds, an Zvi. L'quirice 3 s. Boil them s. a. in sive quarts of water, to the dissipation of the third part; then strain them bard, in part of which warm, dissolve Pulp of Cassia, Tamarinds, new

new Prunes, Sugar of Violets, an 3vi. in the other part dissolve to ii. of Sugar: lastly, add Senna powdered 3is. aniseeds powdered 3is. to every pound of Electuary, and so bring them to the form of an Electuary, s. a.

This may be in lieu of Diaprun. & Catho-

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Elect. E Succo Rosar.

Purges Choler and Phlegm strongly, Dose to 3i.

4. Suzar, juice of red Roses depurated in the Sun, an. thi. and 3 iv. all the sanders, an. 3 s. Mastich, 3 iii. Diagryd. 3 xii. Camphor. Dilet the sanders be rasp'd, and then accurately powdered, and searc'd, to them add Diagrid, powdered apart with a drop of Ol. Amygdal. dulc. then the Camphor likewise reduc'd to Powder, and Mastich sinely powdered; lastly, with the juice of Roses boil'd with sugar to a syrup, and warm, F. Elect. s. a.

Confectio Hamech,

Pulegm, and is therefore with great benefit used against Diseases arising from the same, the Cancer, Leprose, or dry Scurf, Madness, ness, Ring-worm, Itching, Scabs, and the like; the Dose is six drachms in Fumitory-water; Posset-drink, &c. it is thus made:

R. Bark of yellow Myrobalans, \$\frac{3}\$ ii. black and chebul ones, violets, pulp of coloquintida, polypody of the oak, of each \$\frac{3}\$ is. wormwood, thyme, of each \$\frac{3}{15}\$. anifeeds, fennel-seeds, redrose loaves, of each \$\frac{3}{11}\$. beat them, and steep them in six pints of whey one day, then boil them to three pints, and strain them, and to the liquor add juyce of fumitory, pulp of prunes, and raisins, of each \$\frac{15}{15}\$. white sugar, despuned honey, of each \$\frac{15}{15}\$ is. white sugar, despuned honey; when it is almost boiled enough, sprinkle into it agarick trochiscat, senna powdered, of each \$\frac{3}{11}\$. rubarb powdered, \$\frac{3}{15}\$ is epithymum, \$\frac{3}{1}\$ is diagridium, \$\frac{3}{5}\$ vi. cinnamon, \$\frac{3}{15}\$ ginger, \$\frac{3}{15}\$ feed of fumitory, and a rise, spikenard, of each \$\frac{3}{1}\$ is make them into an Electuary, \$\frac{1}{5}\$ a.

Diasatholicon,

Ently purgeth all humors, it is conveniently used in Clysters, in Fevers, and other Diseases, which arise from a certain evil disposition of the Spleen and Liver; the Dose is to 3is. the composition is as followeth:

4 Pulp of cassia, and tamarinds, leaves of senna, of each 3ii. polypody, violets, rubarb, an. 3i. anniseeds, penids, sugar candy, liquirice sliced, seeds of gourge, pompions, cucumbers, melons, of each 3ii. beat those that are to be beaten, then take fresh polypody bruised, 3iii. sennel seeds, 3vi. boil them in four pints of fountain water, to the wasting of a third part, strain them, and put to the liquor 2 pounds of the best surar, boild to the thickness of a syrup, then to the pulps, dissolved in part of the decoction, pour on the syrup by degrees, then add the pouders, that it may be made an Electuary, s. a.

Of Diascordium.

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T is an Epitome of Mithridate, availeth in the Plague and pestilential Fevers, Fluxes of the Belly, Tertian and Quartan Agues, and other diseases, where Theriaca, and other great Antidotes may not be given, as is often to Children and Women with Child; 'tis given with water of wood sorrel, or the like. Fracastorius the Author, gave it thus to those that were insected with the Pest.

4 Of the juice or syrup of wood sorrel, 3ii. the juice of citrons or limons, 3i. diascordium, 3i. the cordial spicies with gems, 3ii. vinegar, 3i. mix them for one dose, to be repeated a occasion shall offer. In lieu of the cordial species, you may

110 VADE MECUM: Or,

may use Alchermes, without gold and pearles, as before. 'Tis thus made:

4 Cinamon, cassia lignea, of each 31s. true scordium, 3i. dittany of Crete, tormentil, bistort, galbanum, gum arabic, of each 31s. opium, 3iss. styrax calamit. 3ivs. sorrel seed, 3iss. gentian, 3is. bole armenac, 3iss. sealed earth of Lemnos, 3ss. long pepper, ginger, of each 3is. white dispumed boney, thiss. sugar of roses, thi. good canary wine, this. dissolve the gums in the wine, and then mingle the rest according to Art, to the form of an Electuary.

Of Pills, and first in general.

Pilula is a diminutive of Pila, fo call'd from its spherical and round figure; the Greeks call them catapotia, from catapino, devoro, because they are swallow'd without chewing; this figure was invented by the Ancients, to accommodate and please the humors of Patients, that could not so well take Potions, or other liquid forms of Medicines, as solid Pills; and that they might draw, from the farthest parts of the Body, all tough and viscous humors, by reason of their being not so soon dissolv'd as Liquids, and so stay longer in the Body.

Now

Now of Pills, some are Altering, Anodine, Narcotic, Incraffating, and others Purging; the Base of the Purging is usually Aloes, adding, if you fee cause, any other Purgers, with their Correctives, and fuch as promote the cathartic quality; to which may be added Gums, Lachryms, Juices, all dry things, which may be form'd into Pills with any convenient liquor, as Honey, Syrup, Mucilage; but if you add Gums, a thinner liquor will ferve; the Gums and Lachryms being purged and depurated from their fæces, flir them in a warm mortar and Peftle till they grow foft, put in their Powders by little and little, pouring on as much liquor as your mixture requires; then rub over the whole mass with oil of sweet Almonds, and within a parchment or bladder oil'd likewife. keep it in a Pill Pot.

For Narcotics, your Laudanum Londinens.
may very well ferve for all, the which how

to use you shall have directions.

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For Purging, if you take them at night, let it be when you sup not, after your first sleep, or early in the morning, because else they draw naughty humors to the stomach, they corrupt the meat you have taken, pluck and gnaw the upper part of the stomach, and so many times provoke Vomit, as Galen notes de sanitate tuenda.

Those

Those thae cannot well swallow them alone, may have them gilt, or may take them in some Posset drink, Wine, Syrup, Broth, yelk of an Egg, pulp of an Apple, stew'd Prune, Raisin, not with their skins, which often hinder them from dissolving in the stomach.

Now in particular, as to Pills, and first of Pilulæ Rudii

Purge ill humors from all parts of the Body, quick in operation, Dose from Di. to Dii. Never given alone but with Pil. Imperial. or Coch. &c.

4- Colocynth, 3vi. agaric, scammony, roots of black ellebor, turpet, of each 313. aloes, socotorine, 3i. cinnamon, mace, cloves, of each 3ii. let the colocynth, being clear from seeds, be cut small, the agaric be rasp'd, ellebor, turpet, and spices grosly beaten, and pouring on as much brandy as to be six singers breadth above all; let them insuse by a gentle heat for sour days, then strain'd and press'd hard, dissolve in the same the scammony and aloes; then put the liquor into a glass alembick, that the humidity being separated (by distillation) there may remain a thick matter of the consistence of honey, of which make a mass.

Aloe Rosata

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Durgeth the head and stomach very well, and killeth Worms, being made up into Pills, and so swallowed; the Dose is one drachm, it is thus made:

4 Aloes succeptine, of the clearest, made into powder, 31v. juice of damask roses purified, thi. put them together to the sun, or in balneo, until all the moisture be exhaled, then add more juice, and again evaporate it: thus doe four times, and then put up the mass in a pot close covered.

Pilula cochia minores

Purge Choler and Phlegm from the Head, and all other parts, wherein such humors are contained. The Dose it to 3i. They are made as followeth:

4 Lucid aloe, the purest scammony, pulp of colocynth. an. 3i. pouder them, and with a sufficient quantity, and equal parts of syrup of wormwood, and buck thorn berises, make a mass s. a. adding Dii. of oil of cloves; and thus ordered, they may be either taken alone, or with other Pills; and may serve you, if not better than Pilulæ ex Duobus.

Pilula

Pilula fine quibus, or without which I would not be.

They wonderfully purge Choler, Phlegm, and Melancholy; they are most properly good against the cataract and dimness of the eyes, preserving the sight, and curing the griefs of the ears; they also help the pains and gripings of the upper guts. They are thus made:

4 Aloes dissolv'd in juice of roses, and after dryed 3xiv. prepar'd scammony 3vi. agaric, rhabarh, senna, of each 3s. wormwood, red rose leaves, violets, dodder, mastich, an. 3i. salt of wormwood, 3s. let the scammony, aloes, agaric and mastich be poudered apart, then add the rest, and with syrup made of juice of sennel with honey, F. massa s. a.

Pilula de Succino

A Re friendly to the Womb, and take away several causes of sterility, good against Catarrhs; Crato was the Inventer, but now alter'd for the better, by the Pen of the learned Physician Sir George Ent, as followeth:

4 White ambar, mastich, an. 3ii. best aloes, 3v. aga i, troch. 3 s. aristol. long. corn. cerv. ust. an. 3s. nutmeg. 9s. cum. syr. de absinth. F. Massa.

Pilula Tartarea sen Melanagoga Quercetani.

Purge both bile, thick, tartarous, falt, mucilaginous humors, from the farthest parts; good in quartane Fevers, Madness, Scabs, Venereal Diseases, Cancers, because they purge the Bloud; they may be taken in a morning, and after a light Supper. The Dose is to 9 s. they are thus made:

4 Crystal of tartar, 3iii. polypod quer. 3ii. blew currans, 3is. slowers of borage, bugloss, nymphae, an pugil. i. boil them in a sufficient quantity of fumitory and scolopendr. water till half be wasted.

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116 VADE MECUM: Or,

24 Of this decoction clarified this. the juice of fragrant apples purified this to which add senna ziii. turpeth, roots of black ellebor, an. ziss. choice myrrhe, zi. mace, cloves, cinamon, epithym. an zis. macerate them four days in a glass vessel in B. M. then strain them, in which dissolve ziv. of prepar'd aloes, and reduce them to a due thickness over a gentle fire; when 'tis almost cold, add spec. latif. dialac. an. zi. sal. absinth. fraxini. an. zii. essentia croci. zii. with a sew drops of oil of anise. F. Massa Pilularis.

Pills of Ruffus

Re called pestilential, because they are usually given in the Pestilence, or Plague, rather to prevent insection, than cure the insected, the Body being free from excrements by the Aloes, from putrefaction by the Myrrhe, and by Sastron the vital faculties are quickned; they are very stomachical; and where any oppression of the stomach doth require gentle purging, these Pills excel; their Dose is to 3ii. They are thus made:

4 Of the best aloes, 3ii. choice myrrhe, 3i. saffron, 3s. make them up with the syrup of wormwood, s. a.

Pilula Aloephangina,

MEsue says are of his invention, which he call'd so from the Arabick word Alephangia, which signifies odoriferous, and aromatic, of which like they are composed. In truth 'tis a fine Pill, and purges the Brain, Stomach, and the sensitive organs from all thick, putrid and pituitous humors, and dissipates the pains caus'd by them, sortifies the Stomach, and its coction. Dose to 3i. and are thus made:

4 Of cinnamon, cloves, the lesser cardamoms, nutmegs, mace, calamus arem iticus, ca pobalsamum, or juniper berries, schenanth, yellow sanders, goat rue, red roses, an. 3 s. from these grossy poudered, draw a tincture with brandy in a glass vessel close shut, in Hiii. of the streining, macerate Hi. of pure aloes, to which add mastich and myrrhe poudered, an. 3 s. saffron, 3 ii. balsam of Peru, 3i. at length, the superstuous humidity being absumed upon hot embers, reduce them into a mass.

Pilula Catholica, seu Imperiales Fernelii

Purge gently all forts of humors from the Viscera, and corroborate them, help con-

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coction in all parts of the body, and for that respect deserve to be call'd catholic. Dose to 3i. these and the other may be taken alone, or mixt with extract. Rudii. They are thus made:

4 Of aloes, 3ii. rhabarb, 3is. agaric, fenna, an. 3i. cinamon, 3iii. ginger, 3ii. nut-meg, cloves, spikenard, mastich, an. 3i. with syrup of violets, make them into a mass, anointing your hand with oil of sweet almonds.

Pilula Stomachica cum Gummi

Leanse the inward parts of all offensive humors, strengthen the digestive faculty. Dose to 3i. you may take them early in the morning, and sleep after them; or you may mix them, and all the other with extract. Rudii, or Pil. Cochia. They are thus made:

4 Of the purest aloes, 3i. senna, 3v. gum, ammoniacum, dissolv'd in vinegar of elder, 31s. mastich, myrrhe, of each 3is. saffron, salt of woormwood, of each 3is. cum syrup. è Rhamno Catharctico. F. massa. s. a.

Laudanum Londinenf.

Nstead of that which is falsely ascrib'd to Paracelsus, set down by Crollius, and others, which was none of his, I have here inserted that of the London Pharmacopæia, as being the safest and best prepar'd of any in the world, and without the stinking venomous juice of roots of Henbane.

4 Of Thebiac Opium extracted in spirit of wine, 3i. saffron extracted the same way, 3iis. castor, 3i. mix them with the tincture of half an ounce of the species of diambra newly made also in spirit of wine; then add ambar-grise, mosch. an. gr. vi. oil of nutmegs six drops, then evaporating all over a gentle fire in Balneo M. make a mass s. a.

'Tis call'd Laudanum, quasi Laudatissimum Remedium. The learned Dr. Primrose could find only his genuine description under the name of an Anodyne, which is this:

4 Of opium 3i. the juices of apples, oranges, quinces, an. 3vi. cinnamon, cloves, an. 3s. digest them for a month in horse dung, press and strain them, then add mosch, 9s. ambar-grise, 9iv. suffren, 3s. of the magistery of pearls and corals,

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the last are useless, saith this Learned Doctor, else the description is good enough, but the doses are not good, for 3i of saffron is enough, and 3s of ambar; and to add Henbane, is not only unprofitable, but dangerous and hurtfull.

Note. Never administer any Narcotics, before you have tryed Anodines. In bilious Colicks you may mix Laudanum, with some gentle purging Syrup or Electuary, without Scamony or Colocynth; as Syrupus de Cichorio cum Rhabarbaro, Persicorum, de pomis, simp. or magistral. rosaceus solut. è succo rosar. & cum senna, elect. lenit. catholic. diaprun. &c. whereby you will, as they say, kill two birds with one stone, i. e. remove both cause and pain: But then you must give less of the Laudanum, than the just dose, that it may not hinder the operation of the purgative.

In fine, according to the divers intentions these Narcotics are to be used, so you must give them at different times; i. e. you must give them at night to cause sleep; in the morning to appease pain, and stop immoderate evacuations, as the bemoragie, and hemorrhoids, &c. four hours before or after supper, to incrassate humors in sluxions when too thin. And now you may see that you need none of the Philoniums, or such like, for reasons before specified.

In

In all sharp pains whatsoever, hot or cold, within or without the body; yea even when through extremity of pain the parties are at deaths door, or almost mad with the vehemency of the same, this Medicine giveth ease presently, yea, and quiet sleep, and that safely, but much better the body being first soluble either by nature or art; I mean by a suppository, or clyster, which is better.

In the Colick with Mint water, or rather fyrup of violets, it easeth the griping pains

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In the pains and gravel of the Kidneys, it giveth present ease, and likewise in the Pleurise.

In pains of the joints it is very good; as also to stay Rheums, Tooth-ach, and other like defluxions, in the beginnings: as namely, in the Tooth-ach, dissolve four grains thereof in Plantan water, and put it into the Ear of the aching side, and take three grains in-

to the body, and lie to rest.

It is a fure help in all fluxes of the belly, whether they proceed of sharp and slippery humors, or whatsoever else offending cause, taken with mastich, terra sigillata, sine bole, or with any other appropriate good Medicines, as old Conserve of Roses; it is exceeding sure, for it fortisieth other Medicines, and doubleth their Forces, adding its own also thereto.

In extreme watchings, and want of rest, either inwardly or outwardly taken, it is profitable; if outwardly you would use it, take four or six grains with three drops of Oil of Nutmegs made by expression, mix them tegether, and bind them in two little clouts, and put it into the Nostrils, it will marvellously assume the pain in the head, and cause quiet rest.

In the extreme bleeding of the Nose, called Hamorrhagy, it is an approved Secret, that 16 grains thereof divided into two Pills, and thrust up into the nostrils, into each nostril

one part, helpeth the fime.

In all kind of Fevers it is good to be given with water of Wormwood, or Pill-wise alone, and if the heat remain after six hours, you may give it the second time, and after that again in like time safely, not exceeding the dose; yet let your own experience lead you, that where you see three grains will not cause rest, in the next potion you may give one grain more, and so increase paulation, but increase not but upon good deliberation.

In burning Fevers it assuageth thirst, and provoketh sleep, chiefly in those Fevers in which the Party seemeth to have some shew of rest, with tedious dreams and slumbers

mixed.

In the disease called Ashma, and in the Pthisick,

Ptilick, if it be used in water of hyssop, it will preserve the diseased Patient a long time: it conserveth the natural heat, strengthnesh the spirits, repaireth strength lost: it is also effectual to be given to melancholy people, which are void of reason, and are troubled with the passions of the heart: it is likewise used wich good effect against vomiting, and the hickeck, proceeding of wind, faintness, or debility of the ventricle.

In the superfluous defluxions of the excremental, or menstrual blood, it is an excellent remedy with Crocus Martis, or red Coral.

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In phrensies, and madness, both inwardly and outwardly, it is good mixed with Aqua vita, and the temples anointed therewith.

In the Falling-sickness, with Spirit of Vitriol, or the quintessence of Camphire, also with Oil of Almonds it is usually taken; but beware you use not this Medicine to any which are feeble through a great Cough, being oppressed with tough phlegm, and shortness of breath, for there it is not good. The dose is two, three, or four grains: if there be loosness of the belly, as is rehearsed, it worketh much better. It is best given in any occasion accompanied with waters, or other medicines, which are most appropriate to the diseases, and parts affected, and yet may very well be given alone in a Pill.

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Of Troches, and first in general.

T Rochischs, are so call'd from the Greek Trochiscos, i. e. Rotula; and 'tis called sometimes Cycliscos by them. i. e. parvus circulus, sen orbiculus, Artiscos, i. e. parvus panis, seu pastillus. The Greek name hath ever since

been used, and not the Latine.

The Ancients had three forts in use; one which they gave in Potions; another which they put up into the Anus; a third, which they us'd outwardly in oyntments. They are made of dry Medicaments powdered, which are to be made up with liquor that is not of any unctions or oleaginous quality, as either some distill'd Water, or Wine, or Vinegar, Juices of Herbs, Mucilages, Honey, Mustum, Syrup, Julep, and so to be dry'd in the shade; they were invented to keep the virtue of the Powders, When you use them, they may be dissolved in some liquor, or mixt with Opiates, Electuaries, Pills, or other Remedies.

Trochisci albi Rhasis,

A Re cooling and drying, they are used often in Injections, for Ulcers in the Yard, and other places, with plantan water, &c. they are thus made:

24. Ceruss wash'd in rose water, 3 x. Sarcacol, 3iii. starch, 3ii. gum, arabic; tragacanth, an. 3i. Camph. 3is. make them into Troches

with rose water, or womans milk.

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Troches of Agaric,

Purge phlegm, and viscous humors, they are to be mixt with other purging Medicines, in lieu of Agaric unprepar'd. They are thus made:

4. White and light Agaric poudered and searced, 3iii. macerate them in a sufficient quantity of white or Rhenish wine, wherein 3ii. of ginger have been infused, and so make troches. s. a.

Trochisci Alkekengi,

A Llay the heat of Urine, and give ease in Ulcers of the Reins and Bladder, and are good in the Stone. Dose from 313. to 311. they are thus made:

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The white Trocher, or pectoral Lozenges,

God for Coughs and Hoarsness. Their Doss is from 318. to 31, and are thus made:

4. Of the finest sugar, the i. white sugar candid, penids, of each ziv. or is roots from Florence, zi. liquirice, zvi. starch zs. with a sufficient quantity of the mucilage of gum traga. canth extracted with rose-water, F. Trochissa. to which if you will, you may add four grains of ambar-grise, and three of mosch.

The black Troches,

Good likewise for Coughs, are made as followeth:

24. The juice of liquirice, whitest sugar, an. 3x. gum tragacanth, bitter almonds blanch'd, an. 3 vi.

3 vi. with a sufficient quantity of the mucilage ef quinces extracted with Rose-water, make Troches.

Troches of Ambar,

C Top fluxes of blood in any part of the body, &c. are thus made:

R. Ambar, 31. harts horn, gum, arabic, red corall burnt, tragacanth, acacia, hypocistis, pomgranate flowers, mastich, gum lacca wash'd, the Jeeds of black poppy scorch'd, an. 3ii. & 9 ii. thus, saffron, opium, an 311. with a sufficient quantity of the mucilage of the seeds of fleawort, extracted with plantan water. f. Trochif. Sa.

Gordonius's Troches,

A Re good against any inward Ulcers, as Reins and Bladder, &c. and cool the body in Feavers, dose to 3i. in syrup of marshmallows; or de mucilaginibus; and they are thus made:

4. Of the four great cold seeds unbusk'd, white poppy, mallows, cotton, porcelane, quinces, myrtles, gum, tragacanth, arabic, piftieh nuts, pine-nuts, Sugar, candy'd, penids, liquirice stic'd, French

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french barly, the mucilage of the seeds of fleawort, sweet almonds blanch'd, an. 3ii. bole armonac, sang. draconis, spodium of ivory, red roses, myrrhe, an, 315, with q. s. of hydromel. f. trochis.

Trochisc. Hysterici,

Serve in Fits of the Mother, provoke Months, expel Afterbirth, &c. defe to 3 i. they are thus made:

4. Of assa satida, galbanum, an. 3 iis. myrrhe, 3ii. castor, 3 is. roots of asarabacca, long birth wort, leaves of sabine, mother-wort, nep, an. 3i. distany, 3s. with the juice or decotton of rue. s. Trochis. s. a.

Trockes of Rhabarb,

A Re of an attenuating and strengthning quality, purging Choler, as well by Urine as Siege, good against the Dropsie, Jaundies, and obstructions after Fits of Fevers, &c. dose to 3i3. they are thus made:

4. Of the best rhabarb, 3x. eupatory, bitter almonds, an 3s. red roses, 3 iii. of the roots of asarabacca, madder, indian spike; the leaves of wormwood, anise seed, and smallage seed, an. 3i. with wormwood wine f. Trochis. s. a.

Trochif. de Spodio,

Cool and bind, allay heat in Fevers, stop Fluxes, and strengthen the retentive faculty, and are thus made:

R. Of red roses 3xii. spodium ex ebore, 3x. seeds of sorrel, 3vi. seeds of procelane and coriander, sirst macerated in vinegar, and then torrested, the pulp of sumach, an 3iis. starch parched, showers of pomegranates, berberries, an. 3ii. gum arabic scorch'd, 3 is. with the juyce of unripe grapes, f. Trochis. s. a.

Thus have I given thee the way of compounding the Medicines both inward and outward, that are most commonly used for the curing of diseases incident to the body of man, and which are made up by the Apothecaries, and sold in their shops. I have likewise given thee their virtues and doses, and manner of using them; notwithstanding all which I have something farther to advise the young Artist of, concerning their Compositions in general, and first of Waters.

For the simple distill'd Waters, they, for the most

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itots ves most part, participate of the nature of simple from whence they are distill'd, whether hot, or cold, or temperate: neither is there a necessity that the Artist should keep so great a quantity of them by him, for a few may suffice; as for the waters of cold herbs they dister but little from ordinary cold water, only they are used in winter, when the herbs cannot be got green; for the hot, aq. card. beinedist. betonica, angelica, calaminth, feniculi, bysop, melissa, petroselini, &c. may suffice.

And here let not the young Artist believe that the waters of Peony, or Misleto of the Oak, will specifically cure the Fallingfickness; or the waters of Primrofes the Pallie, as Quercetan, and other Empirical Chymists, foolifhly prattle; but only as they are prevalent against such and such an humor, from whence these kind of symptoms proceed. 'Tis likewise false which he writes, that some waters are cephalic, as of betony, marigold flowers, &c. which are preparers of phlegm, for these being drunk, do no less correct the humors in the Hypochondria's, than in the brain. 'Tis likewise false, that the water of aften leaves is a specifical remedy against deafness; something indeed may be said, if you mix its falt therewith, and then any other falt, as wormwood, may be as effectun-

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al. Your celandine, eye-bright, fennel waters, &c. are no more opthalmic, than nephritic, or cephalic, &c. So of those they call cordial, hepatic, splenetic, &c. for they only alter the humors, be tney either thin or viscid, and so benefit the stomach, reins, and other parts. It doth not follow that the simples, from whence the waters are distill'd, are good for such and such diseases, ergo the waters are, at least not specifically, as Onions apply'd to the biting of a mad Dog, is good, but the distill'd waters of them are no better than others, &c.

For compound Waters, they are made of hot simples, for the most part with Wine or Brandy, &c. distill'd, as aq. calestis, mirabilis, &c. of which one may ferve for all; where you are to Note, that all the simples of those waters cannot infuse their quality into the Wine, Brandy, or other Liquor in which they are boil'd, infus'd, or distill'd; sometimes the menstruum is not proper to extract them, whence the strength of some of them is extrafted, and the rest not touch'd; some of them are moift, exhalable, vaporous; fome must be distill'd apart, some with other things, &c. and then to add honey and fugar, as Quercetan and others oft do, is not only, needless, but hinders the distillation; for they

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they swim upon the liquor, produce froth, are of thick substance. Likewise to add coral, pearls, and gold, &c. is unprofitable, for nothing exhales from these by the Alembic. Moreover, they call some waters apoplectic, epilept c, hysteric, but vainly, as before; they have likewise their whimsical Treacle waters, which they make of the aforesaid simples, adding thereto Treacle and Mithridate, Constitio Alchermes, de Hyacintho, &c. from whose simples nothing can be distill'd, because they are chiefly precious stones.

Now the Artist may take notice that there may be most excellent cordial waters prepar'd from Aromatics, by infusion onely in Wine or Brandy; as for example:

4. Cinam. 31 zinzib. 311. caryophillor, gatang. cardamom. nucis moschat. granor. paradisi, piper. an. 3:18. Insuse them altogether in Brandy in a vessel well stopt, for some days.

So much for hot distill'd Waters, so much cryed up by Quercetan, and the Pseudo-chymists. The same errors are remarkable in their cold distill'd Waters, where he distills them with bole-armona, terra sigillat, &c. which, as you was told before, will not impart any of their virtues in distillation; so that

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that Quercetan's water for the phthysic, and ulcer of the lungs, and pleurisie, are naught, and all that contain such ridiculous, idle trash; such is his water against all kind of Fevers. What, I pray, could any of our Doctors of the Post have said more? For assure your self, they cannot be for all forts of Fevers, nor at all times. And that water which he says will break the stone in the bladder, is a notorious one, for there is no such thing in rerum natura, as the learned Primrose hath demonstrated, in his sourth Book of Popular Errors in Physic.

What I said of Waters, I may say of Syrups, there is no necessity of keeping so many in a readiness, as are usually in the shops, many confisting of the same simples, or equivalent; and I think those I have fet down may suffice upon all occasions. Quercetanindeed hath many descriptions of altering and purging Syrups, but he often promises more than he can perform; as when he fays he can, by digestion alone, concoct crude things, dulcorate bitter ones, rectifie sharp and tart ones, without addition of fugar. Many of his Syrups, if made according to his direction, are more like Conserves, Sapa's or Robs, than Syrups. He likewise shews himself ignorant in the Art he would correct, when he advises,

advises, after many unprofitable infusions in Syrup of Roses, and others, to make digestion and depuration, to separate the thicker seces, which clarification with the white of an Egg will never doe; but digestion doth not separate the seces, but by delay and time, even in a cold place they will settle to the bottom, as Apothecaries know; and then the white of an Egg does not make any thing for the separation of the thicker seces, but for the depurating the sugar, and taking away the fifth which swims on the top, whence after that digestion and mixture of the sugar, there will be need of clarification by the white of an Egg, which he omits.

Next he adds, Spirit of Vitriol or Sulphur, to his Syrups, and then, I pray, what virtues will they not acquire? fo that Syrup of Violets will be an univerfal remedy, and perform the office of all acid Syrups; as of Sorrel, Limons, Verjuice, Oranges, &c. as if besides the taste they contributed nothing of virtue to the Syrups; or as if a few drops of the Spirit of Sulphur or Vitriol, would equal those virtues: no, no, assure thy felf that the juices of Citrons, Limons, Oranges, Sorrel, &c. are more excellent for inward uses, and safer, and gratefuller.

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How ridiculous is he when he comes to Oxymels, who, that he may prefer Honey before Sugar, calls the faculties of Oxymel vitriolate: as if Vinegar and Sugar had not the same faculties; neither indeed is either endued with any vitriolatish faculty; honey hurts choleric natures, fo doth fugar, but honey more; the vinegar temperates the acrimony of both. Nicolas and Mesues, authentic Galenists have many descriptions of Oxymels, which, in my mind, are far better than Quercetan's; fo that that Chapter of his may feem to be added rather for oftentation than use. The same may be said of his Hydromels, where he prefers honey before fugar.

Now for your Lohochs, you cannot keep them long, 'tis best to make them fresh; they all incrassate, by reason of the honey and sugar, and other viscous matter whereof they are compounded; which being mixt, renders a thinner also viscid, as sugar candy makes any thin humor which it is mixt with glutinous, whence such remedies do incrassate the stomach, but in the stomach and intestines there is made a separation of the thinner from the thicker parts, which cannot be done by the lungs; but what portion falls upon them is by anacarthasis, to be purg'd out again and

and then perhaps 'tis more incrassated by staying; so that when any prescribe Lohoch de portulaca, and such like, in spitting of bloud, and add Trochisc. de terra lemnia, there is danger, lest if these arrive to the lungs, they stuff them, and cannot be gotten out.

As for *Pouders*, there are many needlesly kept in shops, both altering and purging, and many consist of the same simples, some more, some fewer, put onely in a different order; so that they are all as it were one Pouder.

So that of all the hot Pouders, as Dianifum, Diagalanga, Diacyminum, Dianthos, Rofata Novella, &c. I have laid down Aromaticum Rofatum for all; the species latificans & liberans, besides, those hot things have pretious Stones, Pearls, Gold and Silver, which are altogether unprofitable, as I have shew'd before.

In lieu of Diacalaminthes, used by Galen, as a remedy against wind and other cold affects of the lungs, and other viscera, I have substituted Diaireos. For your Species Diamargaritum frigid. how can that be cold, when it contains Ginger, Sanders, Wood of Aloes, Myrtle Berries, Contrayerve, &c. all hot? and for the bone of the heart of a Hart, which

which is a very uncertain Medicine, may always be used Harts-horn. And these may suffice for altering Pouders, the which may be made into Electuaries, by adding Sugar dissolved in proper waters, or with honey.

Quercetan, and his Followers, use many Pouders also, most of which are rather for oftentation, than profit; in one of which he uses Cinabar, a dangerous medicament, if he means the Mineral, and not that which we have not, which is Sanguis Draconis. Likewife for the Vertigo, Sterens Pavonis, which I, and wifer than himself have used, but could never find it answer expectation. His Pouder for the Epileplie confists of certain imaginary Mountains, as Effentia Corallorum, Margaritarum, most fallacious Medicaments, which he himself knew not; or if he did, it doth not follow that they are Antiepileptical. The fame may be faid of your Unicorn, Elephant's hoof, Peonie, Milleto of the Oak, Bezoar stone; which Pouders, saith he, are to be used with purging, using an Antipileptic water, and keeping a good order of Dyet for a whole month; which being duly observed, he may or may not be cur'd at last, or if he chance to be, it shall not be by the help of this Pouder; nay by this method of his by this Pouder, and firictly observing his Rules, any

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any disease curable may, in all probability, be cur'd, and so his pouder is of more efficacy than he is aware of: So after general and proper remedies and evacuations premis'd, the Artist may cure a Fever with cold water, and so of other diseases, especially if sit decoctions be used.

Then he hath another Powder for all affects of the Breaft, which confifts of opening, attenuating, binding, and increating Medicaments with the imaginary essences of Pearls, and Coral, and Diatragacanth, which are hurtfull for an Althma, and which hath fo many windings and meanders to pass through, that it loseth its virtue, before it can arrive at the wished-for Haven; and if there it fould only attenuate thick humors, at that rate it may as well be appropriate to the liver as the lungs, and other viscera, which are first falured by fuch medicines before the lungs. To pass by h's egregious antipleuretic Pouder, which is a lye imposed upon young Ar-tists; it consists of such things as retard anatharsis, and promote not resolution.

Then follows a marvellous Pouder for affects of the Stomach, whose Base is Radix Aronis, prepar'd after a singular manner forfooth, because with it's Sale Aronico, i.e. its own Salt, as Salt is full of Salt Salt; which Pouder is no less pectoral, than that which he

prescrib'd before for affects of the breast; nay, it may be 'tis more pectoral: and I would fain know why one should not as well reach the lungs as the other?

Whether Sterems Anseris be such an effectual remedy for the Jauadies, wifer than he have often tryed, but could not find it anfwer his Elogiums: But how ridiculous it is for him to think, that any one will believe that those excrements are the quintessences of aliments! it would go ill with those animals that should void their quintessences, which they had more need keep to themselves, for the preservation of their own life.

His Powder ad Bronchocelem, goes as well

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His Pouder for all kinds of Hernia's, is a lye in the very Title; for how can it cure a Sarcocele? it is binding, and so may be good for all affects wherein adstriction is required: And thus you will find all the rest of his pouders to labour under some of these Errors I have laid open to thee.

Now for Troches, which differ little from Pouders; for the way of making them into that form, was invented only that the Powders might the longer retain their virtues. I have likewife reduc'd them to a far fewer number than I know are usually in the Apothecaries

thecaries shops; for your Trochifc. of Scills, and Hedecroi, they are only made for your Treacle; which you will not have occasion for, being you are not to make any; and if you were, you'll find the fame simple repeated in the composition; nor Trochisc. Cypheos for Mithridate.

In lieu of Trochisc. de Capparibus, de Eupatorio, de Absinthio, Dialacca, &c. I have put Trochife. de Rhabarb, which may serve for all, in obstructions and hardness, not only of the Spleen, but of all viscera. Troches of Spodium and Ambar, may ferve in lieu of Terra Lemnia, Ramich, &c.

Of Electuaries, some are call'd Opiates, because they contain Opium, which is not to temper the heat of the rest; for it self is very hot, but rather to provoke fweat, which breaks forth best in sleep, whence 'tis added almost to all Antidotes.

Of Treacle and Mithridate we have difcoursed before; they that have one may be without the other; they may be used before they are fix months old, without any crime. There is no need of Electuar. de Ovo, at all, wherein you have others fet down, where the Saffron is burnt, and the yolk of the Egg becomes oleaginous, &c. the Philoniums may be wanting likewise.

cills. Quercetan's Treacles are more worthy to be derided than brought to use, as confisting afion of mere whimsies, so that what I have laid ind if down may suffice to an ingenious Artist.

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For Purging ones, I cannot commend many of them, some purge too gently, some too strongly: Those I have given thee are enough.

Quercetan hath divers, as his Catholicon, which feems to be some extraordinary thing, and yet confifts only of Caffia, Manna, Senna, Rhabarb, and Tamarinds, so after that manner one may invent Compositions ad infinitum.

For purging Pills likewife those may fuffice which I have describ'd; in all which it would be very good to use the extract of Aloes, because in so doing, you would leave many faces behind. Likwise for gums that enter into the Mass, they would be well depurated with Brandy, Wine or Vinegar. Which two things if the Artist would observe, he would not fo much admire those laborious preparations of Quercetan.

In his Panchymagogues so many juices are needless, for one is sufficient, what Purgers he adds.

adds, are common, as Sema, Agaric, &c. neither have any of his other Pills any thing extraordinary in them: for even in his Tartar Pills fo much admir'd, is there any thing but what swells the mass, and may be spar'd, except the Purgers, which are but few.

Besides purging Pills, there are others, which contain Opium, in lieu of all which, Laudanum Londinens. may serve; which is the best that ever was invented. Quercetan hath a pretty way of preparing Opium, forsooth, which he would make one believe is new, but stole it from Hollerius, lib. 3. de materia Chirurgica, he dries it with the fire till it may be poudred, then he makes an extract with vineger, by which means the strength of the Opium is lost, whereby it procures sleep and eases pains. Apollonius of old dried Opium, then mixt it with Castor; but Galen found its essicacy to be lost this way, therefore he thought best to mix it undried.

For Extracts, the Chymists use many, several of which are inutile, as Extract of Senna, Rhabarb, and other gentle Purgers, because their strength is diminished by extraction; neither are they so gratefull or effectual, as the Pouders or Insusions of Senna, &c.

Then lastly for Oils, Ointments and Emplasters, &c. I have given thee the best in use, and which may supply the place of any that thou shalt find in the Pharmacopeia's.

THE Artist is not only to know the way of compounding his Medicines, if occasion be, but he must also understand the nature of Simples, which are oftentimes used to as good effect as Compounds. He is to begin with Roots; where note that h. stands for hot, c. for cold, m for moist, d. for dry, 1, 2, 3, or 4, are for the degree of any quality, as h. 1. hot in the first degree,

Of Simples.

And first of Roots.

Althea

M Ollifie, digest, loosen, mitigate sharpness; chiesly in the affects of the Bladder, Breast, Stone, Pleurisie, Dysentery, bruised and boil'd in milk, outwardly in Cataplasms, &c.

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Then

Red Beets, Hot and dry, loofen the Bel-

ly by their nitrofity, 'tis an Errhine.

Bryony, Purges strongly serous humors, by vomit and stool, dose in substance to 3i. infusion to 3s.

Cichory, a noble epatic, diuretic, c. 2 d.

Comfrey, Great, middle and less, are all vulnerary, inwardly and outwardly good in Ruptures.

Enula campana, alexipharmic, temperate,

pulmonic, good for Scabs, &c. h, 3 d.

Eryngo, is epatic, nephritic, alexipharmic,

Fenel, is diuretic, carminative, bechic, firengthers the stomach, increases milk, comforts the sight, discusses wind; Ziv. of the juice drunk with sugar for 10 days fasting, covered in Bed, cures long Agues, general remedies being first administred.

Lillies, digest, mollifie, maturate; good

applied to Corns and Burns.

Parsley, h. d. 3. diuretic; good for Coughs, Courses obstructed, yellow Jaundice, &c.

China, Prevail much in the French Pox, and are good for the giddiness of the Head, take away the pain of the stomach, and obstructions, and are profitable for the Dropsie, Colick, and Gripings of the Belly, move Urine, procure Sweat, and are helpfull against Convulsions, the Palsie, and pains of the

A Companion for a Chirurgion.

the joynts, and a fingular remedy against a

Confumption.

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Liquirice, is in all its qualities temperate, yet inclining more to heat; it is agreeable to the lungs and breast; rotteth phlegin, moveth expectoration, cureth the cough, helpeth breathing, and is profitable for the reins, taking away the sharpness of the urine, and healeth the sores of the kinneys and bladder.

Polypody of the Oak, is dry in the second degree, openeth the body and bringeth away black choler and phlegm, helpeth the colic, and griping of the belly, and also the obstruction of the spleen, Sc. For French Pox, swellings in the joints, pains on the side, rickets; never given alone, but with other purgers, boil'd with an old cock, dose to 31.

Salfaparilla, is of a hot quality, causeth sweat, especially extinguishesh the heat of venereal poyson, and is good for the articular diseases, catarrhs, ulcers and phlegmatic humors; principally it is good against the Erench Pox

French Pox.
Tormenti, chiefly used in the Pest and other such diseases, where there is a Flux, for the French Pox; there is no vegetable, says Schroder, more used in Fluxes than this, Ulcers, 25, 1501 and 10 and

H

nideo West

the similare,

Next of Herbs.

Wormwood, h. d.3. stomachic, hepatic, splenetic, kills worms; Di. of its salt in a spoonfull of juice of limons, stays womiting.

Southernwood, is much of the same nature.
Sorrel and Woodsorrel, cardiac and epatic,
open, and resist putrefaction, check choler,
excite appetite, quench thirst, whence of incomparable account in simple and pestilential
Fevers.

Maidenhair, temperate in quality, ulefull

almost in all diseases.

Mandlin, of an aromatic favor, attenuates, relifts putrefaction, epatic, loofens the belly very gently.

Agrimony, a noble epatic, hydropic, &c.

Ladies mantle, temperate, avulnerary, thickens the bloud, therefore good in monthly fluxes.

Brooklime, for the Scurvy and Droplie,

Oc.

Dil, augments milk, helps vomit, digeffs, lesses venery, causes sleep; the tops boil'd with oil, is for anodine and somniferous cataplasms for the head, and clysters.

Angelica, is a Bezoardic, vulnerary, provokes courses, dose of the root 3i. use it for

Ariftolochia.

Smallage, the same with Persely. Mugwort, is aperient, uterine.

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Monse ear, h.d.2. binds, absterges, is sternutatory and vulnerary, cures ruptures, especially in children.

Burdock, the roots are dry, pulmonic, diuretick, good for the Gout, tumor of the Spleen.

Betony, discusses, cleanses, &c. specific for the head, liver, spleen, breast, womb, is vulnerary, for Epilepsie, helps the Pox out, and Disury, Bruises, Worms, dose 3i. in whitewine, or other proper liquor.

Borage, corrects burnt choler, antihypocon-

driac, Ego Borago gaudia semper ago.

Branc-ursin, an emollient, for Clysters and Cataplasms.

Bugloss, vide Borage.

Colemorts, are of a mixt quality, for they loofe and bind, laid to Blifters after they are broke, and Pleurisie.

Shepherds-purse, cold, dry, binds, nsed by Peasants to solidate wounds, nor without success; and in sebrifugous Cataplasms, applied to the Wrists.

Calaminth, h. d. 3. opens, is flomachical, hysteric, thoracic, and epatic; helps the cough.

Cardnus Benedictus, h. d. 2. alexipharmic, and sudorific, cures inveterate and quartane Fevers.

Centaury, h. d. splenetic and epatic, deterging and vulnerary, gently evacuates bilious and phlegmatic humors by siege, and serum by the pores; hence profitable in Fevers, Jaundies, Womens monthly suppressions, Scurvey, Worms, Sc.

Cherefoil, h.d. is diuretic, and refolves co-

agulated bloud, induces sweet sleep.

Ground pine, h. 2 degr. strengthens the nerves, is diuretic, and emmenagogic, good inwardly and outwardly against the Gout-

Chamomile, h. d. 1. digests, mollisses, is anodine, moves urine, and the courses; of singular use in the colic, &c. used in Cata-

plasms and Clysters.

Cheledine, h. c. 3. absterges much, carries off bile by siege and stool, sharpens the sight, good in the Jaundies, all inward obstructions: outwardly it helps weakness of the eyes, and ulcers; for which cause some put the juice which slows from the broken stalk into the eyes.

Cichory, c. d. 2. is a very noble epatic, is diuretic, chiefly used in obstruction of the li-

ven and in Feversiego . g. b.il , dansands >

Hemlock, good in the tumors and inflammations of the fpleen, and other parts.

Scurveygrafs, h. d. 3. fplenetic, diaphotetic, renders fixt and crude humors, spiritual and volatile, good in all obstructions, and falt tartarous diseases.

Com-

wardly, in the Jaundies, obstruction of the liver, retention of urine, ruptures, &c.

Costmary, h.d. 3. stomachic, epatic, ne-

phritic, hysteric.

Dodder. h. 1. d. 2. absterges, corrects melancholy, scabs, &c.

Diptany of Crete, h. d. hysteric, alexiphar-

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Dwarf-elder, h. d. discusses, moves sweat, appeales pains of the Gout, good in bernia aquosa.

Endive, vid. Chichory.

Liverwort, h. d. mundifies the bloud, a little binds.

Horsetail, c. d. 2. binds, thickens, stays hemorages, ulcers of the reins and bladder.

Maudin, h. d. attenuates, is epatic and vnlnerary, good in chachexies, catarrhs, coughs, courses retain'd.

Eyebright, h. d.2. is ophthalmic, exphalic, used in defluxion of the eyes, and else-

where.

Strawberry-leaves, c. d. bind a little, dinretic, oft used in Gargarisms, &c.

Fumitory, is splenetic, epatic, strengthens

the inwards, purifies the bloud.

Ground ivy, h. d. vulnerary, often used in resolving the Tartar, in the lungs and other H 3 parts,

parts, good in crosions and ulcers of the vif-

Rapeure-wort, c. d. of chief use in Ruptures, diuretic, cuts tough mucilage in the stomach, and other parts, carrying off bile and serum.

Monsear, is said, by a peculiar property, to help ulcers of the lungs, and spitting of

bloud.

Henbane, c. 3. d.1. mollifies wonderfully, causes sleep, narcotic, used in hot tumors,

gout, tooth-ach.

Sr. Johns-wort, h. d. diuretick and vulnerary, of chief use in mundifying and consolidating wounds, in resolving coagulated bloud, driving out worms.

Hyssop, h. d. 3. attenuates, its chief use is in tarrarous diseases of the lungs, cough, asthma; some prefer it in strengthning the sto-

mach before Wormwood.

Masterwort, h.d. 3. alexipharmic, resolves the tartar of the lungs, in the tooth-ach, in lotions for scab'd heads, laid upon bullets to draw them out.

Lettuce, c. 3.d. causes sleep, bridles choler, increases milk, gently moves the belly, of

good nutriment.

Ducks-meat, c. moistens, used chiefly to extinguish heats and inflammations of bloud, outwardly in malignant scabs.

Privet,

Privet, c. d. cuts and binds, in inflammations, exulcerations of the mouth, and Scurvy.

Majoran, b. d. chiefly in difeases of the head, womb and stomach, used in Eryhina's

and Masticatories.

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Mallows, moderately hot, humect, anodine, loosen the belly, mitigate sharpness of urine; outwardly in cataplasms, &c.

Marshmallows are stronger.

Horehound, h. 2. d. 3. used in obstructions of the liver, &c. spitting bloud, difficult birth, &c. boil'd with raisins and liquirice.

Motherwort, h.3.d.2. chiefly for the womb,

purges by urine.

Melilor, h.r. discusses, mollifies, anodine,

outwardly in cataplasms.

Balm, h. 2. d. 1. of great use in cephalic diseases, is cardiac, hysteric, in epilepsie, ver-

tigo, oc.

Mint, h. d. 3. used in crudity, vomit, wind, weakness, hicop of the stomach, obstruction of the liver, pains of the guts, vertigo, hinders milk from coagulating.

Mercury, h. d. 1. moves the belly, purges choler and water, often used in Clysters.

Millefoil, or Tayrow, dries, binds, used in tumors and inflammations of the yard, and other places, without any repulsion, in hamorages and fluxes of all kind, stoppage H 4.

152 VADE MECUM. Or,

of urine, tooth-ach, mafficated, ruptures,

Water creffes, b. d. 2. used chiefly in the gravel, and obstructions, a Specific in the

Scurvy.

Tabacco, h.d. 3, absterges, is sternutarory, malticatory, vulnerary, chiefly used outwardly; 'cis narcotic, heals scabs, mundifies ulcers, a violent vomit, to be given with great caution.

Thorowax, h. d. nsed in fresh wounds, Enteroceles, swell'd joints, Struma, either in

wardly or outwardly.

Plantan, c. d. z. epatic and vulnerary, ufed in all kind of Fluxes.

Self-heal, h. d. vulnerary, and confoli-

cates.

Penyroyal, h. d. 3. used to stir courses, epatic, pulmonic, dislipates gripings, drives out the Stone and Urine, heals the Dropsie and Jaundies; outwardly for the Gout, cleanses the Teeth, cures the Itch.

Lungwort, c. d. consolidates, for the phthi-

fic, spitting of bloud.

Oak leaves and buds, dry and bind, for the

tooth-ach, &c.

Cinquefoil, is a temperate volnerary, used in catarris, passie, pathisic, gout, in correcting the moistness of the womb, spitting of bloud, and cough, jaundies, obstruction of the liver hiver and spleen, obtunds the acrimony of Choler, stops all Fluxes, good in the Stone, and erosion of the Reins, Hernials, Fevers; outwardly good in inflammations of the eyes, the juice being instill'd, in putrefaction of the mouth, loosness of the teeth, and absterges malignant ulcers. In tertian Fevers they give three Leaves, in the quartan four; some commend the Root held in the hand, to stay the bleeding at nose.

Rosemary, h. d. 2. cephalic, epatic, splenetic, hysteric, stays fluxes, and comforts the

heart.

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Rue, h. d. 3. alexipharmic, cephalic, &c. Sabine, h. d. 3. used in provoking months, and asthma, outwardly to cure spreading ulcers, dry scabs in childrens heads, with cream to take away spots in the face.

Willow-leaves, cool, dry and bind, without

any sharpness.

Sage, h. 1. d. 2. absterges, binds a little, diureric, procures menses by attenuating, and moderates them when they flow too much; good in Polsie, Vertigo, Catarrhs; good in Gargarisms for Aptha's, &c. Lastly, 'twas of such esteem with one, that he asks,

Cur moritur homo cui salvia crescit in borto?

And answers himself,

Contra vim mortis non est medicamen in hortis.

H 5 Saniele,

Sanicle, h. d. binds, vnlnerary, inward and outward.

Savory, h. d.3. attenuates, good in crudity of the stomach, asthma, obstruction of the months, outwardly discusses tumors, and appeales pains of the ears.

Saxifrage, h. d. 3. diuretic, chiefly used for

the Stone in the Reins and Bladder.

Scabiose, h. d. 2. alexipharmic and pulmonic; good in Apostems, Pleurisie, Argina, Cough, Asthma, Plague, Fistula's, &c. outwardly in Scabs and Itch, Tinea of the head, spots of the face, pains of the hæmorrhoids, used in sumes.

Spleenwort, used in hardness of the spleen, jaundies, moves urine, menses, and the stone. Dioscorides writes, the leaves warmed in vinegar, and drunk for 40 days, con-

fume the Spleen.

Scordium, alexipharmic, used in obstruction of the liver, spleen and lungs, stufft with viscous and purulent matter: outwardly mundifies wounds and ulcers, eases pains of the gout, 'tis the basis of Fracasturius's Diascordium.

Houseek, c. 3. binds, used inwardly in bilious Fevers, to appease thirst; outwardly in Angina: The Germans commonly give the piece with Sugar, in Fevers and hot diseases. Groundsel, of a mixt quality, used chiefly in choler, jaundies, worms, vomiting of bloud, &c. outwardly in inflam'd breafts, scabs, struma, &c.

Nightshade, chiefly nied in Erysipela's, pains

of the head and heart in Fevers.

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Cel,

Spinach, c. m. 1. good meat in all diseases, loosens the belly, lenistes the roughness of the lungs, continually used, it begets melancholy bloud.

Tansey, h. d. discusses, vulnerary, uterine,

and nephritic, in worms, gripings, &c.

Thyme, h. d. 3. used chiefly in tartarous diseases, first in the lungs, as cough, and asthmas secondly, of the joints, as gout, opens all inward hurrs.

Colesfoot, thoracic, used chiefly in coughs, whence called Bechion in Greek; 'tis call'd the son before the father, because in Frebruary and March in flowers suddenly, the leaves not yet come out, and these flowers last not above two days almost with the stalk.

Mullen, moderately h. d. mollifies, and lenifies pains; 'tis chiefly used in coughs, spitting of bloud, griping of the belly, and the root taken 9 or 10 days together, stays the pain and flux of the hamorrhoids.

Verven, h. d. binds, cephalic, and vulnerary used in affects of the eyes, old cought obkructions of the liver and spleen, jaundies, griping, griping, bloudy fluxes, expels the Stone, curbs Luft, frightens Tertian Fevers, mitigates the Cont, facilitates Child-birth; outwardly for most of the said diseases.

Pauls Betony, h. d. binds, is vulnerary, and fudorific, good in obstruction of the spleen, and colic, scabs, itch, plague, &c.

Perewincle, c. d. binds, good against fe-

the sungs, continually uled, it beromudeuor

Golden-rod, binds, vulnerary, diuretic, &c. Mend-sweet, c. d. binds, alexipharmic,

good for all forts of fluxes.

Nettler, h. d. 2. open, mollifie, diuretic, a peculiar alexipharmic against hemlock and henbane; the roots chiefly commended in the Jaundies; the leaves boil'd in Potage; loofen the belly, & c. the juice put up into the Nose, stays bleeding, & c. the dead or Archangel, with purple flowers, is commended in the bloudy stay, with white flowers in the white flux, world a stay and a stay

Next of Fiowers, and first of

shove two days almost with the stalk,

Romegranates, are very binding, and thickning, cooling, coc. eyeb or to g redet door

Marygolds, are cardiac, epatic, move cour-

fes, heal jaundies, or, baid but and it

sping.in

clove-giliflowers, h.d. cordial, kill Worms, eafe in Child-birth.

of Brome, splenetic, nephritic, epatic, b.d.2. attenuate, expell the Stone, draw forth serous humors, by vomit, slege and urine; out wardly good in struma's.

Roses, as they vary in kind, so in quality, they strengthen the spirits, the pale loose, the red and white bind, the red stronger; chiefly used in sluxions, severs, thirst, lost appetite, oc. outwardly in vomiting, head ach, watchings, pains of the car, anus, redum intestinum, boil'd in wine, or otherwise prepar'd; in instammations and ulcers of the mouth, eyes, jaws, oc. in fine, there are not more various preparations made of any one thing than Reses in physic.

Elder, discuss, mollifie, sudorific, anodine, used inwardly chiefly in preventing and cu-

ring Erifipela's. "

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Mullen, are in great estimation, in allaying the pains in diseases, and tumors of anns, and

hæmorrhoids, &c.

Violets, are c. 1. m. 2. dry'd they are weaker, they mollifie, loosen, expectorate, used chiefly in mitigating black choler, allaying heat in severs, in coughs, roughness of the throat, sharp catarrhs, pleurisie, &c. they are numbred amongst the cordial flowers: for exther flowers, as of Dil, Camomil, Millot, &c. they participate of the same virtue with the herbs or plants they come of, and so I omit tautologizing.

Saffron,

Saffron, h. d. 2. good for the brain, quickneth the fenses, cheareth the heart, causeth
digestion, helpeth the diseases of the breast,
lungs, and liver; it mollisheth all hardness,
and ripeneth all tumors, 'tis call'd anima
pulmonum: 'tis uterine, 2 or 3 drops of the
tincture given in Fits, in asthma, with ol.
amygdal. Dose to Ji.

Of Fruits, and first of

Aimonds, the sweet nourish, temperately hot and moist, lenise the acrimony of humors and pains, and watching arising from thence, they are chiefly used in emulsions.

The bitter, h. d. 2. open, deterge, are diuretic, outwardly they take away spots, pimples, and freckles in the face, masticated and

apply'd Cataplasm-wise.

BENTON.

Figs, h. 2. very moderate, and humect, are pulmonary and bechic, cleanse the reins and blader of gravel, resist poison, used in driving out the Small-Pox and Measles; they ripen, mollifie, attract, whence from facred Scripture they are prescrib'd in pestilential Bubo's; some Women eat them toasted, to facilitate Child-birth; and 'tis familiar with some to put Figs into Brandy, and burn it, and give it to drink in a cough.

Cloves,

Cloves, are good in crudities of the Sto-

mach, Tooth-ach, &c.

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Cherries, are starp, cool, bind, strengthen the Stomach, hence good in feverish thirsts and heat. The great Fernelius highly commends the decoction of Cherries in hypocondriac affects.

Of Citron, Limons and Oranges, &c. be-

Cubebs, h. 2. d. 3. discuss, strengthen the viscera, and chiefly the head.

Cucumer, refrigerates and humetts, &c.

Sweet bryer, is chiefly commended against the Stone, the kernel taken out.

Dates, ripe and pulp'd, heat and bind, unripe stronger, good in sharpness of the throat, strengthen the fatus in the womb, help difeafes of the reins and bladder.

Acrons and Acron-cups, cool, dry and bind;

Jujubs, are moderately h. and m. used chiefly in distillation of the lungs, cough, pleupleurisie, sharpness of urine, servency of the bloud, erosions of the reins and bladder.

Juniper and Bayberries, h. 3. d. 2. discuss, move urine, swear, open all obstructions, good

in the colick.

Mulberries and Blackberries, are used in all fluxes, and ulcers, and inflammations of the mouth.

Myrtle-

... Myrele-berries, temperately c. d. very bind-

ing, used sometimes in inward fluxes.

and serous humors, the dose of them is from xv. to xx. or dryed in pouder, to 3 ß. or xl. to lx. boil'd.

Elder berries, are alexipharmic and sudo-

rific.

Sebestens, are temperate, between heat and cold, humect, mollifie, check the acrimony of humors, in sharp catarrhs, urines, bilious fevers, & c.

Next of Seeds, and first of

Anise, d. 3. attenuate, diuretic, augment milk, is pulmonic and stomachic, discuss wind, Di. given to Infants, gently cast out, upwards and downwards, any thing offensive.

Carway and Coriander seeds, are much of the

same nature.

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Cucumer, Gourge, Melon and Pompion, are called the four greater cold Seeds, and are used in antipleuretic, antinephritic, antiphre-

netic, &c. emulsions.

The 4 leffer cold feeds are 1 chickory, and endive, a most noble epatic, c. d. absterge, frequently used in bilious fevers; 2. lettuce and porcelan, are good in a virulent Gonor-thæa, Scurvy, kill Worms, &c.

Beans

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Beans, t. d. r. incrassate, exterge, good in Diarrhea, Lienteria, &c. outward in cata-plasms.

Fenel, much of the fame nature with

Anise.

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fearce a cataplaim used in Chirurgery for the said uses, but it or its mucilage enter into't, often also used in emollient Clysters, because its mucilaginous substance obtunds acrimony in plasters over the corroded intestines.

forench Barley, c. d. 1. is diuretic, digefts, foftens and ripens all hard fwellings; is good for inflammations, excelleth against the foreness of the throat, comforteth, absterges. I commonly use it thus: Put a heaped spoonful into a pint of running water, wash it well, boil it a walm or two, pour out the water into a Bason, and use it when it is cold, either for Juleps or Emulsions, or any other ways.

Line feed, h. 1. digests, used in coughs, pleurise, &c. outwardly for tumors and spots.

Lupines of the fame nature with Beans.

Rape seed, provoks venery, used to expell the small Pox.

Worm feed, may be used prepared, i. e. ma-

cerated in vinegar 3 or 4 days dried.

Mustard, h.d. 3. attenuates, draws, used chiefly to stir the appetite, in hypocondria's, and quartan and quotidian Fevers, from a tar-

tarous

tarous mucilage, before the Fit, dose 3i. and in the Stone.

Wheat-flower, mollifies and discusses, used in inflammations and fluxions of the eyes in pultis; dry, is apply'd in Eryfipela's, and pains of the Gout, the brain in scurs, &c. the head, and ease pain in pultis; in clysters

for griping of the guts.

Starch, is moderately hot, levigateth the parts exasperated: it is effectual against defluxions of humors into the eyes, against puftles and hollow ulcers, it filleth with sless, stoppeth spitting of bloud, helpeth the roughness and soreness of the breast and thrort, and easeth the cough: is very good in the sluxes of the belly, to be given in Clyster- against inflammations and excoriations in the intralls.

Farina volatilis, or mill dust, is used in compositions, to stay sluxes of bleeding wounds.

Next of Gums, Resins, Gum-resins, Balfams, and concrete Juices, and first of

Ammoniacum, h. 2. d. 1. digests, draws thorns out of the slesh, moves the belly, is splenetic, used in arthritic pains, in resolving the tartarous, viscous mucilage of the lungs, and mesentery, &c. dose to 3i. outwardly in schyrrous tumors, &c.

Arabic,

Arabic, h. m. 1. thickens and obstructs the pores, blunts the acrimony of medicines, helps coughs, &c.

Sarcocol, h. 2. d. 1. confolidates, ripens, wonderfully profits in fluxions of the eyes, macerated for five days in Asses or Womans milk, then mixt with rose water, and laid up-

on the eye lids, &c.

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Tragacanth, much the same with Arabic, making a lingus with honey, let it melt under the tongue; good in pain and corrosion of the reins and bladder, dysentery, in broth and in clysters; in aq. ros. or milk for sluxions of the eyes.

Tacamahaca, h.1. d. 2. very binding, digests, &c. of great efficacy in pains of the joints. The Indians use it in ail pains, so there

be not inflammation.

Cypress and Chio Terebinth, good in coughs, and other affects of the lungs, with honey moves the belly and urine; 'tis to be wash'd, and so you may mix it with the yelk of an egg first, and then dissolve in in any proper liquor, or make it into Pills, being boil'd in some convenient liquor, and then poudred. The common is used almost in all Plasters.

Thus, h. 2. d. 1. binding fomewhat, inwardly for divers difeases of the head and breast, and fluxes, coughs; outwardly fills ulcers with flesh, heals redness of the eyes,

mixt.

mixt with Womans milk and aq. rof. first impregnated with often extinction of Thus, and made into a liquid collyrium.

Pitch, discusses, digests, &c.

Campbor, relists poison, used in malignant Fevers.

Mastich, h. d. 2. binds a little, mollifies,

used in fluxes, coughs, &c.

Myrrhe, h. d.2. opens, resists putrefaction, used in obstruction of the womb, and viscous mucilage of the lungs and intestines, cough, hoarsness, colic, worms, fluxes, and outwardly in plasters for tumors.

Liquid Styrax, mollifies, dries, good in coughs and catarrhs, hardness and obstructions of the womb, loosens the belly, if taken

with terebinth made into pills.

The true Balfam, as I faid before, is not to be had, in lieu whereof we use, 1. Balfam of Tola, which is h. d. used in asthma's, &c. 2. of Peru, h. d. mollisies, used chiefly in phthisics, nephritics, obstructions, weakness and pain of the stomach; outwardly eases cold pains, the gout, fresh wounds, bruises, fevers, anointing the spine before the Fit, and giving some drops inwardly in Wine, and repeating it, dose ad gut. vi.

Liquid Ambar, h. 2, m. 1. resolves, deob-

structs, used in perfumes, &c.

Acacia, c. d. 3. bind, uf.d chiefly in fluxes.

Нуро-

Hypociftis, of the same nature.

Juice of liquirice, is temperate in all his qualities, but exceedeth fomewhat in heat: lenifies the throat, and mitigates the afperities of the arteries, cleanfeth the bladder, and is good for the cough, moveth expectoration, and is very profitable against all vices of the lungs and throat.

Opium, procures fleep and sweat, laudanum

is always used for it.

Sugar, h. d. 2. nourishes, opens, moves the belly and urine, refifts putrefaction, helps coughs, Orce

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Tartar of Wine, attenuates tartarous and thick humors causing obstructions of the liver, fpleen, mesentery, reins, hypchondria's, Oc. whence the Chymists fallly call it an nniverfal digestive, upon which account they often premit it cathartics; and to loofen the belly, they give to 3ii. adding to gr. ii. of Diagrydium, or Gutta Gamba; the cream or chrystal is most used. Laid anyo upon a wongeclan

Next of liquid frices, and first of

The juices of Limons, Berberries, Citrons, Aurange, Pomegranates, Rofes, Woodforrel, have the virtues of their Fruits, of which before.

Verjuice, c. 2. uled in heat of the ftomach and Hypochondria, yea, some say cis better than Winegar in all hot diseases. Oil, Oil, h. m. mollifies, digefts, moves the belly, (taken zi. in warm Ale) corrects the driness of the breast, mitigates the griping of the belly, loosens the urinary passages, used in clysters often, and tumors; taken with hot water it moves vomit.

Oleum Omphacinum, is prest from uneipe

grapes, it cools more than the ripe.

Of things bred from Plants in Several places before.

Of living Creatures, their parts, excrements, and other things taken from them, and first of

Afelli, Sows, digest, open, &c. hence they are of peculiar use in resolving tartarous mucilage, and reducing the Stone to a mucilage, as some say, sed band credo, in deobstructing the wiscera, jaundies, colic, nephritic pains, and difficulty of urine, asthma and loss of appetite, from the mucilage of the Stomach. Laid alive upon a Phagedana, some say cure it; dose to 3i. in pouder with wine, or other nephritic liquor.

Snails, cool, confolidate, lenifie, agreeable to the nerves and lungs; hence used in phthific and cough, heat of the liver, and colic; outwardly they break carbuncles and biles, laid on alone, or with Bulls gall; confolidate

wounds

wounds and ulcers, especially of the nerves; mitigate in gouty inflammations, draw out water in dropsies, and hydrocele's, bruiled with hyslop, and apply'd, stay hæmorrhages laid to the forehead. The fatness of their broth, heals redness and pains of the eyes, and intercepts defluxions to the eyes, laid to the forehead with the white of an Egg. The slymy matter that comes from them, when prick'd, is emplastic, and intercept sluxions to the eyes, applied as before. Snail-ashes heal the choppings and scursiness of the skin, and stay the gleeting humors.

Earth worms, are mighty diuretic, diaphoretic, anodine, discuss, mollifie, increase milk, glutinate wounds of the nerves, and other parts; used in apoplexics, convussions, jaundies, dropsie, gripings in children, caused by worms; the scorbutic, running or wandring gout; they are given inwardly either bruised and strain'd, or dryed and poudered; outwardly alive to Whitloes till they die, dead in Cataplasas; their ashes put into the hol-

low tooth, eafeth pain.

Now of the parts and excrements of living Creatures, &c. and first of

Fats, Greafe, Suet and Marrow of living Creatures, are for the most part anodine, mollifying,

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lifying, discussing, &c. more or less, according to the nature of the Animal they are taken from, and their age, for the older discuss

more, and mollifie less.

Album Gracum, dries, absterges, good in Dysenteria, Colic, & c. outwardly blown into the throat, it heals the squinancy, malignant ulcers, sprinkled upon them pultis wise; it mollifies and breaks tumors; anointing the belly, it draws out dropsical waters, the asses alone, or with ol. rosar. takes away wharts.

Crude Haris horn, resists putrefaction, provokes sweat, strengthens the natural ballam; hence 'tis profitably used in malignant fevers, small-pox, &c. where sweating is requisite; 'tis to be used in decoction, or infusion, and

never crude.

Elephant's tooth, cools and dries moderately, strengthens the viscera, stays whites in Women, and other fluxes; good in jaundles, worms, obstructions, pains of the Stomach, in ponder the raspings may also be given for the same uses in insusions.

Ichthyocolla, i. e. Ifinglafs, used in glutinating Emplasters and Gellies, for Gonorrhea's

and Fluxes.

All Galls calefie, dry, difcus, kill worms,

and are good for dulness of the eye.

All Blond calches, binds, that of Birds, by reason of its nitrous faculty, absterges, as of Doves, Kites; Vulture, Oc. Dungs

Dungs of Birds are wholly of a nitrous quality, whence they powerfully discuss,&c. but those of Cattle anodine.

Urines are hot, and dry, and absterging.

Castor, h. 3. d. 2. attenuates, discusses wind, strengthens the nervous parts, provokes months.

Mosch, h. 2. d. 3. discusses, is cordial; Dose to gr. v.

Ziber, the same.

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Things from the Sea.

Ambargrise, of the same virtue with Mosch, Zibet, &c.

Ambar, heats, strengthens, used in Catarrhs, Epilepsie, &c. all Fluxes. Dose to 3 i.

Sea-moss, c. d. kills Worms inwardly and outwardly. Dose to 3i.

Corall, dries, cools, binds, purifies the blood, &c.

Sperma ceti, humects, resolves, is anodine in the chollic and gripes in children, and coughs. Dose to 3 ii. some anoint with it in the Small-Pox, to fill with slesh.

Next of Mitals, Stones, Salts, and other Minerals, and first of

Alum, 'tis aftringent, mendeth putrified ulcers, drieth the moist, consumeth superfluous flesh, taketh away the itch, cureth the fcab, is very profitable in lotions for ulcerations of the mouth, throat, or elsewhere: being burnt, is most used to dry up ulcers, and induce a cicatrice.

Antimony, is aftringent, and drying, used to absume excrescency, and procure cicatrices to-mundifie ulcers of the eyes, in Collyria's.

Mercury, inwardly mundifies the blood, in the Lues Venerea, kills worms, helps difficult labour; anointed, cures all scabs, lice, resolves

hard tumors, &c.

Bole-armonic, is very dry and aftringent; a good medicine in relifting fluxes of blood, helping the catarrh, dysentery, and ulcers of the mouth; good in the Pestilence, and all other like infections.

Quick-lime, burns to a crust; the washed. dries without mordacity, is good in contu-

macious ulcers, &c.

Vitriol, h.d binds vehemently, kill worms. Chalk, dries, absterges, is emplastic, used fometimes inwardly in heat of the Stomach.

Cryftal,

Crystal, binding in all fluxes, begets plenty of milk, good for the Gout and Stone; 3 i. powdred with ol. amygd. dulc. cures them, have taken Mercury.

Lytharge of Gold and Silver, dry, bind, used

in most Emplasters.

Minium, binds too, &c. used in Unguents

and Emplasters.

Nitre, relists putrefaction, quenches thirst, cuts tartarous humours, resolves clotted blood, mitigates pain; where the body is loose, 'tis not given so well; outwardly, in inflammation of the jaws, &c. in refrigerating topics 'tis dissolv'd in sit liquor, lint dipt in't, and appli'd, and in burns.

Oftiocolla, quickly glutinates bones; it may be given inwardly to 3is. and put in Em-

plasters.

opens, relifts putrefaction, provokes sweat; hence used in phthisic, cough, pest, &c. outwardly, it discusses hard tumors, heals itch, &c.

which dry without modacrity; if wash'd, fit for cancrous ulcers, in Collyria's for fluxions and inflammations of the eyes.

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Of simple and compound Medicines, and their qualities, &c. in general.

THE Artist is by all means to understand the operation in general of the simple and compound Medicines he is to use both inwardly and outwardly; of the compounds before: As for the simples, we are to begin with those that are used in altering and preparing humors, and first of Choler, which because 'tis hot and dry, is to be cool'd and moistned; if thick, 'tis to be attenuated; to the effecting of which purposes, you have Vegetals, Animals, Minerals, at your service, as hath been shewn before in particular.

Phlegm, by reason of its thick, viscous, slimy, cold quality, requires heating, attenuating, inciding, deterging medicines, unless it be salt, then are cooling and moistning to be

used, as in Choler.

Melancholy, which is fax sanguinis, being cold, thick, dry, earthy, stopping the viscera, ought to be prepar'd with moistning, heating, attenuating medicines, and such as open and deobstruct the passes; all which are performed by such medicines as are of the same nature with preparers of Phlegm.

Black

- Black Choler, becanse 'tis hot and dry, as Choler is, must be cool'd and moistned, and attenuated, by reason of its thickness; all which may be done as before in Choler.

Now when humors are artificially prepa-. red, they are to be purged, and carried off by fiege, or vomit, fweat or urine, that they may no longer infest the body, or cause a relapfe. Now these following purge Choler.

Cassia, fit for all times and ages, except a moist stomach, then 'tis corrected with anise, &c. or accuated with Rhubarb. Dose from

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Manna, from 3i. to ii. is gentle, in Broth, Tamarindi, from 3 ii. to iii. in convenient decoction with Rhubarb, as in Cassia, fit for all persons and times.

For Aloes, use Aloes Rosat. hurts hot and dry bodies, women with child, those that

void blood by fiege and vomit.

Rhubarb, vacuates Phlegm too, and binds after, good in bruifes, especially dried well; or else boil'd or infus'd in some convenient liquor, as white-wine, and then cast away the first decoction, boil it again, and strain it hard, which binds more, cor bepatis, it may be given to all ages, and women with child. Dose 3 ii. infused to 313.

Scamony, strongly vacuates thin and ferous humors, not gross; must never be given without lubricating, cooling things, as juice of quinces, mucilage of gum traganth, yelk of an Egg, &c. the prepar'd is call'd Diagridium.

All Mirobalans, are like Rhubarb, but purge

Black Choler, is purg'd by I. Senna, which though it be plac'd as the chief of Melanagogues, yet 'tis, I must tell you, aliquid transeendentale, as I may say, and may be reckon'd a cholagogue, phlegmagogue, hydragogue. Dose ad Zi. and was of so great esteem with my ever honoured Master, Dr. Patin, that he us'd to call it miraculum natura; and indeed it would take up a reasonable Volume to recite its virtues; for,

If any medicine e'er deserv'd to be Call'd universal, sure 'tis Senne.

Black Ellebor, in contumacious Diseases onely, and then to the strong, in decoction

or infusion, to 3 ii.

Phlegin, is purg'd by 1. Agaric, safe for any ege, but hurts the Stomach. Dose to 3 ii. corrected with sal. gemma, ol. amygdal dulc. &c.

Noto damnosum Turbich mea viscera turbet.

Of

'Tis very strong, and purges from remote parts, in powder to 3i. in decoction ii. corrected as Agaric.

Hermodattils are of the fame nature, dofe

and correction.

Mechoacan, safe to all ages, purges water. Dose to 3i. in Broth, Ale, White-wine, or ol. amydal.

The same of Jalap. Dose to 3 i. in broth,

&c.

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Hydragogues, are such, as purge serous humors; the stronger fort of Phlegmagogues, or in greater Dose, become Hydragogues.

N. B. These strong Purges are to be given in Broth, or Posset-drink, Whey, or ol. amygdal. dulcium; to correct their sharp, siery, inflaming quality, that they hurt not the noble

parts, &c.

Things causing vomit, act by an oleaginous quality, quantity, or acrimony; they are either gentle, as warm water, water and vinegar, and honey, butter melted, simple oil; or middle nature, as the middle bark of the walnut tree, gathered when 'tis juicy and dried. Dose to 3i. Asarabaca root to 3 iv. Lawrel leaves, Radish seed, to 3 iii. Agaric and Nettle seed to 3i. with water and honey, or fat broth. The vehement and white Vitriol, in some convenient liquor, to gr.xv. Vitrum Antimonii, and Crocus Metal. to gr.vi.

Of Dinretics, some are hot and dry, 3.d. and of thin parts, some cold; they are proper for hot reins and liver, the same with preparers of phlegm: where note, that Dinretics are onely attenuating, if they be too gentle, the humor very thick, if they be given in a small Dose; and on the other side, Attenuaters become Dinretics, if they be strong, copious, the humor thin. The cold and temperate, are made of preparers of Choler.

because they are hot and dry to the 3d. degr. or by an occult quality; as China, Sarsa,

Guajacum, Sassafras, &c.

After general evacuations, particular follow: Attenuating things purge the head by the nostrils, as Errhins, by the mouth, as Mafticatories and Gargarisms, they must be sharp, such as in preparers of phlegm; but Mercury is the most potent of all, which purges all humors from all parts of the body by the mouth.

Bechies vacuate Humours contain'd in the thorax by the mouth, with cough and spitting, which must be of such things that purge not properly, but prepare the humors, that they may the easier be expectorated by

cough.

These are the chief materia medica of internal and external Remedies. From preparers of bile, and things of such like nature, you may be furnished with

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Indurating medicines are such as render the body unfit to yield to touch, they are cold, and of thick substance, they incrassate thin humors, bind fluxes of the belly, months, and blood in wounds; outwardly they repel, condense the skin, so that nothing an evaporate; all which is done by cool things, &c.

Much of the same nature are Epulorics, for

they must dry the upper slesh.

Many also of the aforesaid are glutinating, to which add Thus, Gum. Elemi, Aloe, Hares hair burnt, &c.

Of the aforesaid Astringents, are likewise

Emplastics made.

From preparers of Phlegm, are used things to discuss wind, and provoking menstrua's and resolvers, attenuaters, &c. to which resemble attracters, which are to be hot & dry 2d. and of thin parts; but when they ascend the 3.d. they resolve too, and are called Metasyncritica. But those which by their too much heat and thin parts, raise Bladders, as Roots of Sow-bread, Hermodastils, Garlick, Onions, Leeks, Crowfoot, Sinapis, Fermentum, Stavisagria, Cantharides, are called Vesicatores.

Caufties and Escharotics, are strongest of all,

as Black Sope, with common Salt, Calx viva, Tartar, calcind'd, Vitriol. ust. Lap. infernal.

red bot Iron, &c.

From all these before recited, may be had Remedies for the eradicating divers Diseases; as to calefie the Head, Stomach, Liver, and Bowels, if occasion be, take things preparing Phlegm, and things outwardly that attenuate and resolve; but if you would restrigerate those parts, then take those things that alter Bile, and outward coolers.

Things against the Diseases of the Eyes are call'd opthalmics; of which some are anodine, and repel; some dry, or moisten; some digest, or resolve; some deterge with-

out pain.

Thoracics are divers some purge, or rather prepare excrementitious humors, contain'd in the thorax, and they are such as alter Phlegm.

Others incrassate thin humors, they are cold or temperate, to lenise coughs, and

acrimony of humors.

Of Cardiacs, largely before.

Augmenters of milk, are things that beget good juice, and nourish much; but medicines, such as moderately attenuate, as moving Blood to the Dugs, and herbs must be green; crystal powdred to 3.

Those things lessen milk, that either rifrigerate and thicken, or dry, &c. StoStomachies, both cold and hot, are of the fame nature as medicines preparing Phlegm and Bile.

Cold and hot Heparics are taken from thence too.

Splenetics, are such as attenuate, mollisse and open thick and feculent humors, as in

preparers of Melancholy and Bile.

Nephritics, are such as help suppression and heat of Urine, Gravel, Stone, obstruction from viscid humors: against all, but breaking the Stone, you have the same Remedies, as for Preparers of Phlegm, Bile, and Diuretics; the which will also cause the Stone to be voided; but if you would have medicines to break the Stone, truly I am of the opinion with the learned Primrose, in his Vulgar Errors, that there is no such medicine in return natura, for reasons too long here to recite.

Hysterics, are hot, as either move courses, which is done by such as prepare Phlegm, or such as prohibit their too much flowing, such are laid down in Astringents; or such as corroborate the womb, which are such as heat and strengthen the brain.

Arthritics, are of the same nature with

Cephalics, whether hot or cold.

Things killing worms, must be either bitter or sharp, which by a penetrating quality dissolve.

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Solve their substance; or astringent, to bind them together; or lastly oleous, to shut up their pores, and to hinder transpiration, by which they only

live, and so suffocate them.

Semnifics, are such as afford fit matter, as meats and drinks of good juice, and much nourishment; or stir up lust, or are windy, such as Roots of Eringo, Artichokes, Sparagus, Satyrion, all Bulbs, Cububs, &c. But those that extinguish it, do refrigerate, and over-dry.

Vulneraries, are things whereof Potions are made for the cure of wounds and ulcers.

Anodines, ease pain, and must be of temperate nature, or hot and moist in the 1. deg. and analogous to the native Heat. But sometimes in raging pain, we are forc'd to use Warcoics, as roots and leaves of Hemlock, Henbane, Mandrake, Poppy, &c.

Emollition, is to be used in hardness and driness; tis done by things hot and moist in

1.and 2. deg, fuch as Anodines.

Suppuraters, are also hot and moist, emplaflic, and obstructing the pores, such as Anodines and Emollients, always to be used in the state of a Tumor.

The Tumor being fully come to Suppuration, and pus procur'd, it must be open'd with an incision knife, actual or potential cautery, then the pus must be deterg'd, which for the most part is done by things of

a bitter

a bitter or nitrous quality; the stronger of these are for fistula's and malignant Ulcers.

The Ulcer being deterg'd, 'tis to be fill'd up with flesh, by means of gentle dryers, and detergers, without acrimony, or great heat, lest they absume the blood, the matter of flesh, and heat the efficient cause.

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Sarcotics only remove impediments; they are divers, according to the nature of the Patient, for the dryer are for dry bodies, moist for moist, as women and children; if they be too weak, the Ulcer will become fordid; if too strong, they will exasperate.

If flesh be luxurient, 'tis to be absum'd by Catheretics, not corrupting the near parts: they must be of thin substance, hot in 3. or 4. deg. such are burnt Alum, Precipitate, Ol. Viriol. Sulphur, &c.

The Ulcer being arcificially fill'd with flesh, and equal, 'tis then to be cicatriz'd; by things that dry, to absume superfluous humidity, for the skin is dry; they must bind, to contract the flesh without evident heat or sharpness, except to strong bodies.

Now the Artist must not rest here, but he must farther what belongs to the forms and compositions of medicines, both inward and outward; and first of

Suppositories, or Glander, from likeness, good to irritate the expulsive faculty, where Cly-

sters cannot be admitted, and to bring forth Clysters too long retein'd: they need not be too long, their often use procures the hemorrhoids, and ulcers, a candles end, or violet confect is enough for children; others are made of the juice of Beets, Mercury, Rhadish, Althea, &c. with honey boil'd hard, or castile sope alone, or honey boil'd, adding heir. pic. sal. an. 3 ss. as the nature of the Patient requires. In Ulcers, make them of Empl. divinum, de cerus. &c, to ease pain of sewet,

vitel, over. cum butyro, &c.

Clyster, lavamen, enema, is of liquid substance, administred at the anus for divers, and those very profitable uses, they are made of milk, water and honey, oil, broth, wine, or any decoction the Artist sees proper for his purpose; if to loosen and deterge, take the common decoction, and add double or triple the dose of purging Electuaries; if to mollifie, take cassia, mel. viol. &c. if to ease pain, vitel. ovor. ol. rof. viol. lac. crem. bordei. amydal. dulc. 4. sem. frig. maj. all these good in Fevers, with decoction of viol. lastu borag. prun. hord. &c. In Ulcers, after deterging, you must consolidate with astringents, but the juices of herbs are more effectual than the decoction. If wind cause pain, use herbs that prepare phlegm. The quantity must be less for children; or when you would have them

then retein'd longer, in colic, nephritic, in great plenitude of excremens, inflammation of the belly, enterocele, women with child, those that are short breath'd. In others, use to i. of liquor more or less, as bigness of the body and age is, oils, 3 ii honey or fugar, 3 ii,iii,or iv. vitel.ovor. ii,iii. falt, 3i. Now Clysters revel, derive, evacuate, so that there is no part of the body that finds not profit by them, chiefly the womb, reins, spleen, &c. and by consequence the brain; keep them longer to ease pain, longest to glutinate, shorter in deterging. Nutrient Clysters are made of Wine, Broths, Milk, Barley, Almonds, Eggs, and a little Sugar, to which you may add cooling herbs, but clear the excrements: for the worms, give better things at the mouth; and milk, and fweet things in Clysters.

Injections are used to divers parts of the body, and are made of the same things, as

Clysters only.

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Peffaries are for the womb, like Supposuories, they are made of Opiats, Juices, Liquors, Powders, Ointments, Honey, Oils; either as Glandes, with Honey only boil'd and Powders; or of things before, imbib'd with Flax or Cotton, wrapt up in Silk, or fine Linnen, about the bigness of a great finger; they are either to mollifie, ease pain, open, or bind.

Nascale is a round Pessins, made of the same things

things for Virgins, and Ulcers that will not admit of Pessaries.

Apozems, are made of divers Simples boil'd, to prepare or purge humors, as of Woods, Roots, Barks, Leaves, Fruits, Seeds, Flowers, Spices; mostly Liquirice is added to all, because it lenishes, humects, opens, &c. Borage, Buglof. Adianth. because they are temperate, as Passule, Hord. & pruna acida in hot diseases, dulcia in cold; sometimes

Hydromel for phlegmatic diseases.

Commonly they are made of 3 vi. of Roots, Woods, and Barks, 3 ii. Leaves to M. x. Seeds to 3in3. lesser sort of fruits to 3i. the greater are added by number, as No. xii. to xx. slowers, pug. vi. spices are added in the end, not to be boil'd much: first the Woods, Roots, Barks, are to be boil'd, then Leaves and Stalks require most boiling, next Seeds and Fruits bear lesser hoiling, Flowers and Spices the least. The Artist is to prescribe what liquor they are to be boil'd in, according as he sees sit, as common water, or distill'd, or barley water, or hydromel, in pituitous cases, in melancholy whey, in obstructions chalybeat water, and wine, and sometime vinegar.

The quantity of ingredients and liquor is left to the judgment of the Artist, as the quantity more or less he intends of the Apozem; but if bitter, the less must be; there is no

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need of so many kinds of Simples, the best may be made of two or three harder things, as Woods, Roots, require more liquor and boiling, which is often left to the discretion of the Artist, the Artist says in the Prescri-

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Fi, decoctio, in aq. font. q. f. when 'tis boil'd,'tis to be strain'd, hard, or gently; and sometimes clarified with alb. ovi. which strain'd liquor and clarifi'd, must be determined in quantity, viz. to. i. pro 3. dosib. &c. after dissolve honey, sugar, or syrup to every dose zi. thus prescribing, in qua colatura clarific. dissolve syrviolac. & capil, ven. an. zii. &c. sometimes juices with sugar are prescrib'd thus, in colatura dissolve succorum depuratorum boraign. acetos. an. zi. sacchar. alb. zii. or q. s. lastly, 'tis aromatiz'd with some simple powder, as cinamon to heat; sanders, or elect. triasantal. to cool, thus: F. Aposem. clarific. & aromatizat. zii. cinam. pro iv. dosib. matutin.

For purging Apozems, they are made of the fame altering medicines, in which you are to boil either Polipody, Epithym, Falap, Turbith, Hermodaltil, &c. as your case requires; or to insuse Senna, Rhubarb, Agaric, &c. ti'd in a fine cloth, because their strength wastes in boiling; then straining it, add some syrup or juice, or insusion of Rose and Peach Flowers

in the Spring.

Of Syrups before.

Juleps,

Julaps, quasi iolabion, violarum infusio, they fay invented by the Arabians, and fignifies as in much as pleasant Potion with them, known to the Grecians, for assuaging thirst, &c. not fill fo much boil'd as a Syrup, and hath less Sugar; and is also made of a triple or quadruple Sa proportion of decoction, or distill'd water to ti any kind of Syrup the disease shall require; fometimes Spirit of Vitriol is added, ad gratam aciditatem.

Examples of Julaps, are first Julapium Alexandrinum, alias Syr. Regius.

4. Red-rose water 3 iv. white sugar, 3i.

Coque s. a. utendi tempore.

Julepum Rosatum, is prepar'd as Syr. Regias, of pale Rose-water.

Julepium Violarum, is made of the water of Violet Flowers, and Sugar, as in that of Rofes.

Potions and Infusions are almost the same,

both either purging or altering.

The purging is made of loofners, disfolved in some purging or altering decoction or infusion, or broth, or distill'd water: the dose to 3iv. sometime are dislolv'd, Manna, Cassia, Tamarinds, &c. or some solutive Syrup, or Electuary, or Powder, as . Rheum, Mechoac. Jalap, pul. Sanct. &c.

The altering is made only of altering medicines, to 3iii. of Liquor, 3i. of Syrup, Pow-

der, or Electuary, 3ii.

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they To these may be refer'd Dyer, of which

s as in venereal distempers.

wn Cock-broth, is a kind of Apozem, made by not filling a Cock's belly with fruits, feeds, flow-Su- ers, leaves, roots, as sometimes China and ple Salfa, proper for the disease, letting them boil r to till the flesh be almost ready to part from the re; bones, then strain it, and add Sugar, or convenient Syrups: dose to Zviii. infuse for the Phihific China, Salfa, or Saffafras, to 3 ii. in ium ag. th xii. or q. s. then put in the belly of a Pullet, with fruits, as before, and Barley, &c. 3i. use it for many days without sweating: adding purging things 'twill purge, as Polipod. Sem cartham, an 313. Sena Epithym. an. 313. Sem. anis. fanic. an. Zi.

An Emulsion is of a liquid form, made of Amyg. dul. nuclei pini, ad 3 ii. sem frigid maj. &c. ad 3i. bruis'd in a Stone-mortar, pouring on to i. of Barley-water, with Liquirice, by degrees, and strain it, which is Almond milk; if you add Syrup of Violets,&c.

'tis call'd Emulsio,

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Here comes in the use of Milksoften used

in Phthisics, Dysenteries, &c.

24. Latt. Afin. 3 iv. Sacchari 3 ft. or Sacch. Rosat. or Violat for the first dose, the next increase 3i.to xii.or xvi.then return by degrees to the former quantity, 2 hours before dinner; purging first; in Dysenteries, Coms milk may do.

Whey

Whey is medicinal, cools in Fevers, vacuates melancholy humors, tempers the liver and reins, best in Summer; when you may boil a little, or infuse all night in thi. of whey, fumar.chicor.an.ms in colatura dissolve Sacchar to this. augment the dose next day, till you come to this. then returning to this. do this for a month, abstaining from meat two or three hours, you may add juice of apples, limons, oranges, sorrel, &c. or syrups; if you will have it purging add manna, &c. purging syrup, elect. or powders, &c.

A Gelly is a concrete substance of Broth, the fat being taken away; made of calves, or sheeps feet, the sless boil'd from the bones, then strain'd; when 'tis cold, take off the fat, the remainder clariste with the whites of Eggs, then to be i. of the Gelly, add ii. of Sugar, and ii. of Spices, as Mace, Cloves, Nutmegs; some add, to gratiste the polate, Syrup of Limons, Vinegar, Rose-water, and

Ambar-grife, &c.

A Bolus is of the confiftence of Honey, as much as the mouth can receive at once; 'tis

purging or strengthning.

Purging is mode of Cass. extract. 3 i. Dis. prun. 3 (5, Elect. è suc. ros. 3 ii. cum Sacchar. F. Bolus, and such like, with Crem Tartar, or Turpentine, with Elect. or Powders, &c.

Strengthning is made of Conferves 313. of

Powder, and strengthning Opiates 3 i.

Of Electuaries, Lohochs, Pills, Troches, Pow-

ders, before.

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Dia.

may Gargarisms, are medicines held and agitated in the mouth for divers uses, as to purge char. the head, to appeale pains of the throat and me to palate, and for their ulcers, &c. discuss and outh. repel; made of waters and decoctions, acyou cording to the intent of the Artist, of the i. of liquor, 3 ii. of fyrup, to 3 iii. of Powders. &c.

Apophlegmatisms, or Masticatories, are solid oth. lves remedies held in the mouth, for the difeafes nes, of the head, teeth, and wind-pipe, and to fat, draw phlegm from the head; the simples are put into a fine cloth, or reduc'd to Troches. s of They hurt Ulcers of the mouth, throat, inves, flammations of the lungs, and catarrhs; after using, wash the mouth with warm water.

ate, or ptisan, &c.

Errhina, with the Greeks, are things put into the nostrils, to purge the head; or for Ozena's, Polypus, Hamorrhage, and their other diseases. They are either solid, made up with wax, honey, or terebinth; or humid of juices, as before; or their decoctions, adding ur. Syrup, as Oxym.scyl.mel anthos. or Pul.euphor. cartham. digryd. &c. 313. may be drawn up, of the mouth being full of water, lest they fall upon the Throat, the Head must be upof right. When there is fear of blindness, or catacataract, use them not; but they profit in in contumacious diseases of the brain, where a the smelling is prejudic'd, and deasness, but after general remedies, &c.

Ptarmica by the Greeks, they help vapors, and mucous matter in the head, are made of

Powders.

Epithems, the Ancients call'd in general la whatfoever was outwardly applied to the di Body, now adays they are applied to ftreng. & then noble parts, as in malignant & burning ev Fevers; if liquid, they are made of distilled m waters, fit juices, wine-vinegar, confections, as ftrengthning Powders, to 3 ii. of Liquor, of in Powders, and Confections, 3 ii. they are to the be appli'd warm, with scarlet cloth, wrung as out; they ought not to be put cold to the heart, in putrid Fevers, till after general Re- qu medies, lest the transpiration of fuliginous or vapors be hindred, unless the heat and ma- th lignity of the Fever chiefly urge; for then the Artist must wholly turn himself to te extinguish the heat. The same may be said w in coming forth of the Small-Pox and B Measles, for fear of striking them in ; yet hot V ones may then be used. Some apply them to M the Stones, to cool the whole Body stay Ha- w morrhage, but hot to excite Venery. The folid are made of Conferves and Powders, y

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in in a manner of an Opiate, with fit liquor, or nere a Pidgeon cut in the middle, or a Lambs, or but Calves, or other young Animals lungs, sprinkling some 3ii. of cordial Powder. In Engall'il land we apply them to the feet, to revel from ors, the head, and noble parts.

of Lotions are to heat, refrigerate, provoke fleep, used to the feet, or the head; for the eral latter, they are made of proper simples, adthe ding Spices, and sometimes Senna, Agaric, ng. &c. and sometimes Sulphur, after universal ing evacuations; then dry the head, and apply illy medicinal Caps or Plasters, with ointments ons, as the diftemper shall require; they are used of in tinea's, furfures, fourfs, fcabs, and lice; e to they are hurtful in the beginning of catarrhs ung and pains.

the Baths, and Semicups, are made of a large Re quantity of Roots, Herbs, and Flowers, more ous or less, according to the quality of water and

ma- things to be boil'd.

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hea Lixivia, are made of 3iii. of wine, or wato ter, and 3i. of ashes; and they are used insaid wardly too in Dropsies, and Stone, &c. of and Broom, Bean, Ash, Vine-stalk Ashes, and hot White-wine, adding Nutmeg, Cinnamon, n to Mace, Cumin, Anise, Fenel-seeds, dulcified Ha- with Sugar.

The Fomenta, or Fotus, are made of Oil; when ers, you would mollifie; of Milk, &c. when to

leni-

lenisie; of Lixivium's of Wine, Brandy, Oxycrate, and divers decoctions, when we would digest or dry, &c. they are to be applied often with soft flanel, or Scarlet Stuffs, or Spunges, &c. not long to be used, three or four days is enough; if longer, they induce a weakness of the slesh and nerves, always anointing the part with some proper Oil or Unguent.

Embroche, is taken feveral ways, either for an instillation made of some liquor on a part; or for a gentle application of liquor, or friction with the hand, or the application of linnen cloths wet in that liquor; 'tis made of the decoction of divers things in proper li-

quor, for hot or cold diseases.

Of kin to these, is Oxyrhodinon, made of four or five parts of Ol. Rosat. & Acet. Rosat.part. 1. or sometimes juices, are added keeping the same doses, which is cooling, so not to be us'd when there is a catarrh, and cough, heaviness of the head, noting sulness of humors, or tension, which shews plenty of vapors, unless they be dry and bilious; moist are known by sleeping, and moisture of the nostrils, dry è contra.

Of Oyls, Balsams, Liniments, Unguents, Cerats, Emplasters, and Sparadaaps, before.

Cataplasma, is a medicine of consistence of Puls; the crude is made of contused herbs.

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herbs with their juices and oils, adding Meal and proper Powders: the boil'd is made of things till they tabefcate, then pulp'd through a Sieve, adding mucilages, meals, fats, oils, and boiling them again to the thickness of Pulse. For the most part 'tis prescrib'd to be made of the residue of the decoction for a fotus bruised in a mortar, pulp'd by a Sieve, to thi. of which add oils, or analogous to them, mucilages, to 3 iii, iv, v, vi. yet 'tis often left to the judgment of the Artist, of Powders, Meals to 3 iii. 'tis made sometimes of ripe Fruits, or unripe bak'd under the embers, adding proper Powders, as in Fluxes of the Belly, of Quinces, of the Stomach, of Crusts of Bread with aftringents, or with Crums of Bread, Milk, yelks of Eggs, Saffron and Oil, in pains: or of astringent Powders, with whites of Eggs; of Crums of Bread moistned in water, and Oil of Roses, is made an excellent Cataplasm for Inflammations, or with Vinegar, and then 'tis more proper for Eryfipela's; and if you use Butter for Oil, 'tis more concocting; with Pitch'tis good against bruised Nerves and Gout; with Hydromel, for the Inflammations of the Pracordia; 'tis also made of Brans boil'd in Oxymel for hard Tumors of the Liver and Spleen, and inflamed testes, venenate bitings, with mulse, without vinegar to furuncula and tubercula's. ment

ment with Oil good for hard tumours, to draw out things fixt in the Body; with vinegar, for the humors of the Spleen. Of Figs bruifed with Ol. irin. for indurated Nerves, contracted joints, hard tumors of the Liver and Spleen; add Nitre, and it breaks Apostems, draws out Stings, &c. 'tis good for Dropfies, much more if Cumin be added.

Phenigmi, are hot medicins, which drawing the tumors to the part, make it look red, whence it hath its name; the stronger exulcerate, they are hurtful to Women, and effeminate Natures, Children, superficiary diseases, to an immaterial cold diffemper, for which only calefying things are fit, according to Atins. Hence are various forts of Phenigmi's, differing only in efficacy, &c.

Pfilothron, which takes hair away, also any absterging, discussing, resolving Medicine: To take away hairs, add a little Auripigment to Calk; but to rubifie, Pepper, Sal, &c. Tis good against the Elephantiasis, Podagra, fluxus muliebr; if it lie long on, 'twill ulcerate.

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Smegmata belonging to the cosmetic part of Medicine; but some are hot and dry, and remove outward distempers, made of salt water ashe, spumice, &c. are administred in the form of Sope, or Powders; but Friction is to precede: they are used in cutaneous Distempers, as Lichenes, Pfora, Elephantiafis, &c. For the head

head Lotions are to precede, as in tinea, of the decoction of Lupines, Barley, Bran, &c. then rub it with Powder of Nitre, Pumice, &c. ty'd in Bags; Sope is stronger, and is made of

Ashes, Sewet, Lie, with Calx, &c.

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Dropax, is also a depilatory Medicine, 'tis stronger than Pfilotbron, and that depiles by extraction, this by corruption; 'tis made in form of an Emplaster; the simple is call'd Piptofis, or Picatio, because made of Pitch and Oil, and applied to the part, the hair being shav'd off; 'tis us'd in extenuation of the parts, for it humec's and calefies, and draws blood to the part; but in extenuation caused by an ill concoction of the Stomach or Liver, this helps not; 'tis good also for oft vomitings, crudities, and cæliacal affections; pull it off before it be cold, and repeat it often, till the part look red; instead of Pix, use Galbanum and Sagapen. in hard Bodies. The compound is made of Piper, Pyrethrum, Sulphur, Sal, Euphorbium, Stercus Columbin. with Pix, in form of an Emplaster; it ought not to exceed the third degree of heat, for its defign is only to rubifie; Frictions, Fomenting, Oc. must precede, but use it not too long, lest what's attracted be refolv'd.

Sinapismus is a Cataplasm of Mustardseed and Figs marcerated in warm water, and bruised; the gentler is made of one part of

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Sinapis,

Sinapis, and two of Figs; the mean of equal parts, the stronger of two parts of Sinap. and one of Figs; for Figs some use hot Bread; Vinegar takes away the strength of Sinapis; tis us'd as Dropax: 'Tis good in Chephalalgia's, Epilepsie, pains in the Joints, Breast, Palsie, Distillations, Sciatica, shortness of Breath, and bad Appetite, from Etius. Apply it not to Cartilages and parts without slesh, as Ears and Nostrils, &c. The Compound is made thus:

R Empl. mucilag. or such like, 3 ii. sem. Sinap. staphisag. sterc. columb.an. 3 \(\beta \). pulver aromatic. 3 ii. in oleo irino. F. Empl. or with Terebinth. for the Synciput in form of T. Goats dung

for the Hip-gout.

Vesicatorium, is made either in form of an Emplast. as Emplast Vesicator. or Emplast. de mucilag. Zi. Cantharidum Zii. or like a Pultis of ferment. Zi. Cantharid. Zii. malax'd in Brandy or Vinegar; when it bath rais'd a Bti-ster, apply a Colewort leaf a little dried; 'tis used for the same purpose as Synapism.

It may also be proper in hot Diseases; as

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1. In the declining of a Difease, to discuss the relicks: so Galen in a Phrensie.

2. When the humor is fixt so, that it cannot otherwise be discuss'd, as in a salt Rheum.

3. If it be of a venene quality, as in Bitings

and Stings, Carbuncles, and malignant Ul-

Cauteria, induce a crust by burning, they are actual or potential; the first is a hot Iron, by which means are Hamorrhages staid, defluxions are intercepted, carious Bones, malign UL cers are cured; the second are Medicines for timorous persons, but Iron is safer; they are proper for Bubo's, Carbuncles, contumacious phlegmatic Difeases, they dry and strengthen moist parts, hinder the Corruption of a gangren'd part, divert humors in divers Diseases; hence they are applied to the Thighs, Arms, Shoulders, and Head. The potential Cautery is made of strong Lixivium boil'd to the hardness of a Stone, then cut square, like ordinary Dice, and put into a narrow mouth'd Glass stop'd from Air; some add Cala to the Lixivium, or use this:

R. Lixivium, ut supra q. s. to which add Calx, and Tartar calcin'd to a redness, of each three parts, Vitriol calcin'd to a redness two parts, Salis Armoniaci one part; boil them to the consumption of the moisture, and keep it as before.

Collyria, fee before.

Dentifricia, call'd Odontotrimmata, are used to pollish, deterge, and fasten the teeth, in Diseases of the Gums; they are made of Coral, C.C. Eg-shells, os sepiæ, alumen, pumice, oris,

K 3

Cina-

Cinamon, Nitre, Sal, Dens equi, &c. burnt or dryed to powder, of which you may (adding proper Liquors) make Lotions, or with Honey Liniments, or Powders alone to rub them with.

Powders put in a Bag to discuss, strengthen, resolve, ease pains, winds, stays distillations, for the Head, they are cold Cucupha; for the Stomach, Scuta; for the Heart, Liver, &c. they must imitate their form.

Frontale, is made either of dry Cephalics and Aromatics to discuss; or of Lettice, Hyoscyam. four cold Seeds, &c. to procure sleep; or inform of a Liniment, or Pultis, as ung. popul: Zi. ol. resar. aut violat. ZB. album

ovi q. f. parum aceti rosat.

Suffitus, is a remedy from which smoak is drawn by the heat of fire, for divers purposes, as to strengthen the head and other parts, stay defluxions in pestilent contagious obstructions, Asthma, Suppurations, Pains of the tides, divers affections of the Womb, to provoke Sweat and spitting; 'tis dry or moist: this is made of hot proper Liquor, expiring Vapors, as Vinegar, Wine, Brandy, &c. the dry is made of pinguous things sending forth a smell, as Ladanum, Myrrhe, Mastix, Storax, Terebinth, Castor, Thus, Benjoin, Lig. Aloes, Cinam, Lavendul, Cloves, Spica, Amber, Mosch, &c.

form'd into Troches with pinguous things, as Terebinth, &c. use it not in spitting Blood, nor in dry diseases of the breast, they are oft prescribed in diseases of the Womb, 5. Aphoris. 28. Suffitus aromatum muliebria ducit; when th' are obstructed by much and thick matter; but they hurt when with child, and dry up the tender acetabula, whence they become barren.

Next the Artist is to know the use of the Instruments he is to keep always in readiness in his Closet or Chest; and first of the Crowsbills, Catch-bullets, and Terebellum.

These Instruments are used severally, to draw out Bullets, Arrow-heads, broken Bones, pieces of Armor, or Mail, or whatsoever else of unnatural things gotten into any part of man's body.

The Incision, or Probe-scissers, do dilate and enlarge the orifice of a Wound or Ulcer; for divers respects better than the Incision-knife.

The Dismembring knife, is used in the sleshy parts to cut close to the Bone, the better to make way for the Saw.

The Trafine, was first devised by Mr. John K 4. Woodal,

Woodal, a very learned man, and is of more use than the Trapan, as I have divers times experienced; and I use it according to his direction, which I shall rehearse in his own

words mostly.

First, That the Pin thereunto belonging, be triangular, and placed in the centre, and stand fast; also that it stand no lower, but always Somewhat higher than the circumferent teeth of the bead of that Instrument do; because the faid Pin guideth the circumferent Tooth-beaded Saw to the beginning of the work, and in the agitating and moving the Trafine with the hand to and fro, the faid Pin first takes hold, ere the teeth of the Instrument touch the Scull; for the Pin is not only appointed as a guide, but also as the stay to the work; which done, namely when the Tooth, Head, Orb, or Sam, bath taken round hold, then the Artist is to take up the Instrument, wipe and cleanse the Teeth, and draw out the Said Pin; then be is to pierce on, often taking it out, and dipping it in cold water, and cleanfing it with a Brush (whereby he will shun wounding the dura mater) till be have gone through the Cranium; then taking out his Instrument, he Chall find the piece of the Cranium fixed within

Further, he adviseth the young Artist to make trial on a Calves head, or the like, before he put it in practice upon a man.

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The Head-Saw, is to give a vent through the Cranium, and with it may be taken off a Finger or Toe, as occasion shall serve; and this rather than cutting Miners or Chissels, they being so apt to shatter the bones; but with this, if the member be stedfastly held, or bound to some piece of Wood, it is taken off very cleanly.

The Dismembring-Saw is used to saw off a Bone of the Arm, Leg, or Thigh, after the slesh is cut from it by the Knife, and the Periosteon scraped away with the back there-

of.

The Speculum Oris, is of two forts, i. e. plain, which taketh hold under the Chin, and holdeth the Mouth open, and the Tongue down, both at one time, and is very necessary in applying Medicines to the Root of the Tongue, Toula, or roof of the Mouth: or with a Screw, thereby by degrees to force, and wrest open the Jaws in the Lethargy, Convulsions, &c. and many other dangerous Diseases, and for conveying nourishment into the Mouth of the Patient.

Speculum Ani, the name declareth to what use it serveth, to open, as occasion shall be offered, as in excoriation, usceration, sistula, &c. Here have a care not to force needless dilation, lest you bruise the Sphincter-muscle, which divers times will mightily result the In-

ffrument, yea, and the Patients own will, then you are to defilt.

Of Cauterizing Irons, before in Cauteries.

Forceps for Teeth, of several forms and sizes, and a punch to force out a stump of a hollow Tooth, which cannot be laid hold on by other instruments.

The small Syringe, though many pretend to have the true knowledge of its ufe, yet they fail grofly. You must have one for watry injections, another for oil; and in using it for the Gonorrhea, let it first be delivered between glans and praputium, holding the last close together, to wash the passage; the next bout, take the yard in thy left hand about the middle, and then put in the Syringe fo far as thou canst leisurely, then deliver the Injection, holding thy left hand so as it may not come out again, but be convey'd to the neck of the Bladder, getting another to fill the Syringe again, and deliver that as the other, not remowing thy hand, and then the water will go into the bladder, and this way thou may'ft inject as much water as thou wilt into the bladder. Let not the Medicines to be injected be too hot, nor too cold. The Syringe is not here limited, but is used in other parts, as in Wounds, Ulcers, and Fistula's, which will be declared when we come to speak of their Cure.

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The Clyster-Syringe, and Pot, are very necessary, with Pipes of several sizes; there is also belonging to this Instrument, a crooked neck like an Elbow, that in what manner sever the Patient lie, the Medicine may be administred to him, and therewith also one may give himself a Clyster. You must also have a Clyster-Pot with a Spout, the better to deliver into a Syringe the Liquor without a Funnel. If the medicine will not enter, then with Spathula mundana, draw out part of the Excrements, and then give your Clyster: moreover, many are so weak, the cannot retain the Medicine, you shall then make use of some soft Clout, or Towe to hold it in.

The Catheter, and searching Candles, are very necessary in obstructions in the passage of the urine, or neck of the Bladder, which by a Syringe cannot be removed. When you use it, put it in gently, with the crooked part downward, so far as it will be put in, being first anointed with a little oil, then feel by the root of the yard near the anus, with the fore-singer anointed, (or the middle singer of thy other hand) where the end of the Catheter resteth, or beareth out; then put in the Catheter yet surther towards the anus, bearing down a little the lower part of the said Instrument with the upper hand, which stayeth the Catheter; then together with the help of

the lower finger of the other hand, turn the Catheter upwards, putting it also forwards a little, and it will flip into the Bladder; then draw out the Wire within the Instrument, and the urine will come forth, still keeping the Instrument carefully within the Bladder, till all be run out, that gently will come without forcing. Moreover, you may, by putting in the longest finger into the Patients Fundament (the Catheter being in the Bladder, and the water drawn out) feel eafily if any Stone be in the Bladder; the party grieved standing, and bending his body likewise forward. Searching Candles of Wax will be also necesfary in Caruncles, or Ulceration of the neck of the Bladder, or paffage of Urine, by them you shall find out where the grief is, and be able to convey apt Medicines thereto. When by the Candle you have found the certain. place of the grief, which you shall perceive, when you thrust the Candle into the Yard, by the Stops and Stays which it shall find in the faid Paffage; be careful to observe the just length to the further end of the faid Stop or place agrieved; and there if you mark your Candle well, you shall perceive the full length and breadth of the Disease; then upon the faid Candle you shall fasten the Medicine you intend for the grief; as if there be spungy Ach, a little alumen ustum, or vitriolum ustum, &C. &c. will be proper, which print, according to the depressed part of the Wax, into the Candle, and convey it warily to the place, and let the candle remain in the Yard, but have a care you keep it not in, till the Wax melt too much; then draw it out, and arm it as before, and put it in again, and ever alter your Medicine upon the searching Candle, as you see cause; and forget not to use good injection

alfo, which will help much.

Cupping-glasses of several fizes you shall find very useful, as to fasten upon a Bubo to bring it forward, &c. also to let upon the upper part of the Shoulder-blade, or on the Thighs for the cure of the Sciatica, &c. or to draw Blood to a member wanting nourishment, and to attract Humors to a place: also. they are set with scarification to draw Blood out of any member; then light your Tow, clap it on, then press the skin with your finger close to the Glass, and it will come off; then take a Lancet and lightly scarifie the place, and then fet on your Glass again, and draw as much blood as you shall think fit; then wash the place with fair water, and dry it with a Sponge, and anoint it with a little fresh Butter, and it will be whole; scarifie not too deep.

Blood Porrengers are necessary, thereby to

know the quantity of Blood let forth.

Spatula Mundana I have used in extreme costiveness, when no purging medicine would do good; you may, if occasion offer, open the anus with the Speculum ani first, but most commonly it is easily forced into the anus of it self, being anointed with grease, and so put up the Spoons end, and therewith draw out the hard excrements.

The Dyet-Bot is made of Copper or Earth, and is to boil drinks of feveral forts in.

Of Lancets, the Artist is to have always a Case of good ones in his Pocker. When you use them, you shall make a ligature about the Arm, some three fingers breadth above the place you purpose to cut, in this manner: Take a Yard and half of your Worsted Gartering, or Lift, or a Womans Fillet, put your bandage upon the arm, and turn the ends both round the arm, and meet them together on the outfide, so that it come twice about the arm, and then tie them on a fingle bow knot, which will eafily be loofed upon occasion; then chafe well the vein, that it may rife full; make your Orifice not deep, nor too large; when 'tis too fmall, 'twill prefently fwell: always strike the vein a little cross, not just along, nor quite overthwart, but flanting. When you have well noted the place you intend to cut, you shall lay your Thumb gently upon the vein just by that place, and with your

your Lancet in the other hand, as far as you shall think fit cut the vein, a little stretching up your hand by the slacking your ligature the blood will stay; then with your fingers crush the blood out of the orifice, and lay on a Pleget of Lint dipped in cold water, and a linnen bolster upon that, both which ought to be laid in a readiness before the ligation be made, and then with the hand bind up the arm, going cross above and below the elbow, still making the band to cross upon the bolster, make it fast, not too hard, and so it must remain till the next day.

If the Patient faint in the bleeding, let him put his finger far into his mouth, and press down the root of his tongue, and force himfelf to keck, or throw cold water in his face, and lay him at full length; but if he swoon, then bow him forward, and clap your palm of your hand close upon his mouth, stopping his Nose betwirt your finger and thumb.

If any come to thee to be let blood, do it not without good advice of a Physician; and when thou goest according to his directions, whatsoever happens, thou shalt go blameless.

The Veins usually opened are these sollowing.

The first in the Arm is called the Cephaliaca, or Head-vein, and lieth upper-most on the outside.

The next is the Mediana, or common Vein, because 'tis most commonly opened. It is cut generally in any affect of the body; beware of pricking the Nerve lying under it.

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The third is the Bafilica, Epatica, or Liver-Vein and lieth on the infide of the Arm, and

hath an Artery lying under it.

And because all Veins have the same original, therefore you shall bleed the most apparent, and free from danger.

The fourth is the Vein in the Forehead, in Phrensies, pains of the Head, Rheums, &c.

The fifth is that under the Tongue, in the Squinancy, Inflammation, and swelling of the Amygdals, or Almonds of the Throat, Apoflumes of the Mouth or Throat, or root of the Tongue.

The fixth is the Saphana lying under the Ancle, and is opened in warm water, chiefly to draw down Womens monthly visits.

The Artist fitted with these Instruments, shall keep them very clean, oiled, and rowled up in oily clouts, and when he hath used any of them, rub them very clean, and have also in readiness these things following, viz.

Searces of Hair and Lawn, Splints, Tape, Sponges, Rowlers, a Mortar and Pestle, Strainers, Juncks, Tom, Clouts, Thread and Needles, to make Rowlers. Thou: Thou hast all this while Reader been in the Theory, now in short of the Practick, in the Cure of Tumors, Wounds, Ulcers, Fractures, and Dislocations, wherein lies the most common and major part of thy Profession.

OF TUMORS,

And first in general.

A Tumor is a Disease wherein the parts recede from their natural habit in quantity, hindring their action. Hippocrates call'd it Oedema, from Oedein, to swell; the Arabs,

Apostema.

The differences are from the four Humors, or some solid matter, as in Hernia's, &c. now Tumors are either natural or unnatural, simple or mixt; as from pure blood proceeds a Phlegman, from impure a Carbuncle, Furuncle, Phyma, Bubo, &c. to Oedema are reduced Wind and Water: from pure Choler Erysipela's, if corrupted Herpes, &c. from Melancholy Schyrrus, from its ustion, Cancers, Leprosie, &c.

The causes of Tumors in general, are Congestion and Fluxion. The first is from the faculty ill concocting, or expelling; or if the excrements are thick, cold, or the ways ob-

structed,

fructed. The second is, when the whole Body, or some part, being irritated by the quantity or quality of humours, transmits them to another, as the Body to the Glandules, the principal parts to the Emunitories, the stronger to the weaker. To these add pain and heat, which properly do not draw, but irritate the expulsive faculty; thin Humours flow, thick congest. The special causes are either procatarctic, as blows, falls, vehement motion, &c. which are rather occasions, than causes; or antecedent, as the four humours, as before; which if they cannot be prevented, being shut up in some part, are called the conjunct, or continent cause.

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The figns of outward Tumours are apparent to the fight. As for the Cure, they have four times; first the beginning, i.e. when the part begins to fwell; or when the Humor is yet crude, or some light Symptoms appear: the increase is, when Humors begin to concoct, Symptoms grow greater; for till Pus is made, there are oftentimes great pains and feavers. The state is when the Tumor hath done increasing, the matter is concocted, the Symptoms are very grievous: The declination is when all is quiet. For their end, 'tis either by Refolution, which is best; or Maturation, which is next; or in hardness, which is worse; or in Putrefaction, which is worst. Now Now they are likely resolv'd when the matter is thin, maturated by Nature's getting the Victory, indurated either by the immoderate use of things resolving the thinner part, the thick remaining, or the too much use of coolers. Resolution is known by the lightness of the part, little pain and pulse. Maturation the contrary; of a Schyrrhus the diminution with hardness; of Putrefaction a black and livid colour. Sometimes a Tumor vanishes, the humor falling upon some other part, then the Tumor is diminish'd, but yet

bad Symptoms remain.

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These things being premis'd, you are to order your indications according to the times; first then the matter flowing is to be taken away, pain or heat that attract are to be affwag'd; if the part be weak, 'tis to be strengthned; then that which is confirm'd, is to be cur'd; if blood offend in quantity, call'd Plethora, Phlebotomy takes it away, if not much, Fasting, Watching, Friction, Exercise, &c. some of which are not so necessary in the Fluxion, because they irritate it. Other humours that offend in quality too, call'd Cachochymia, are evacuated by Purgation. Now thefe are administred either in the beginning or augment of Tumors, either for Revulfion or Dirivation fake. In the state and declination evacuation is convenient from the part affected.

fected. Now Revulsion is an aversion of the slowing Humors to a contrary part, or to the nearest the original of the Fluxion, that they may cease to incommode the part affected. To perform which well, the Artist must know that it ought to be done,

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1. According to rectitude (not Mathematical, but Medical) of the Fibres, dispers'd to all oppositions, as above, below; before, behind; right, and left; within, without; 5 Apb. 58. which Galen proposes l. de Revulsione: the last the Arabians omit in their doctrine of Revul-

fion.

2. By the parts most distant, which is when there is a very great Plethora, else by the nighest; as when we apply Emplasters to the Head to revel a Catarrh from the Breast, or sharp Clysters to prohibit Humors ascend-

ing to the Head.

3. To the original of the Fluxion, if it may be, but it is not always necessary, nor possible; yet it may be done according to all oppositions, as before. So the opening Vena Frontis, helps in pain of the hinder part of the head, though the original be not there: But if the original of the Fluxion be unknown, then we are to revel to the parts most distant, as if from a Vertigo we fear an Epilepsie may succeed, Canteries may be prositably applyed to the Thighs, &c. or a Vein opened in the lower

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lower part: but that Vein is always to be open'd, which hath the nighest communication with the part affected: as in the Pleurisie we let blood in the same side, because of the nigher communion of Veins; but the Thigh, &c. being affected, we cut the opposite Vein, by reason of the communication from the same Vena Cava.

4. By the common Vessels, which are not only the Veins, but the Arteries, Intestines, Vreters: For the whole body is confluxible and perspirable, and is made of an unsearchable harmony, as divine Hippocrates hath lest recorded. Sometimes by hidden and unknown ways to us, though not to nature; and which cannot be known by skilfullest Anatomists, and in dead Carkasses they appear not.

Here note, that Attraction is rather an Averfion, than a Revulsion, and so is not its true Genus as some think; for 'tis perform'd ofttimes by Expulsion, as when 'tis caus'd by force of Medicine, Cauteries, or Vacuum, which because non datur, it hath no positive qualities, yet Vesicatories draw. Again, Revulsion is not only convenient in Humors that are slowing, but those that are apt to slow, and that are influx'd, if they be but apt for motion, and may be averted to a contrary part, as Galen cure'd an inflammation of the eyes in one day by purging. In Derivation, humors that have flowed, may be derived to other parts, ergo they may be mov'd; if they may be mov'd, they may be revel'd. Now

Derivation is an aversion of humors, by the neighbour parts, and hath respect to humors not yet impacted, but only quiet; for the Impact is to be dealt with by Topics, not to be order'd in the beginning, but augment of Tumors.

Thus having, I hope, made plain to you the doctrine of Revulsion and Derivation, you are not to forget in the mean while to apply to the part some repelling Medicines, as Ovi Album, cum Ol. Rosar. washed well in Plantan, or such like water, and Bol. Ung. Alb. &cc. having a great care of using these too much, lest Schyrrbus, or Gangrene supervene. They are hurtful likewise,

1. If the Tumor be in the Emunctories.

2. If it be venomous.

3. If it be nigh a noble part. and admit

4. If the Fluxion be critical.

5. If from an outward cause, yet Repellers are used in small bruises.

6. If it be in a Cacochymic on weak body; whence Scabs, Small-pox, &c. are not to be repell'd.

7. If there be great pain, Repellers will augment it. In Congestion there is no place

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for Repellers. Aqueous things repel weakly, dry ones are stronger; they are to be us'd in a hot air, great tumor, valid age, and habit of body; broad veins, in a declining part, gentler are for a cold air, small tumor, childhood, and Women; narrow veins, upper part, they are often to be renew'd. If by these means the Tumor cannot be hindred. you must use Resolvers, but in the augment let them be more sparingly mixt with Repellers. In the flate let their quantity be equal, which must also be Anodine because pain then chiefly urges. In the declination, let them be altogether Resolvers. If it cannot be diffolv'd, Suppuration is to be procur'd with hot and moist Peptics and Emplastics; for these prohibit the diffipating of the Spirits. Pus being made, the Tumor is to be open'd, either by a potential, or actual Cautery, or Incifion-knife.

1. In the declining part.

2. According to the ruga's of the skin.

3. Taking heed of the Veins, Arteries,

4. That the humour be not evacuated all at once, for wasting the Spirits; then it must be mundisi'd, incarn'd, consolidated, as you shall be taught: And likewise for the Symptoms, as Hemoraige, Pain, Syncope, &c. In malignant Tumors, as pestilential and vene-

216 VADE MECUM: Or,

real Bubo's, Parotides, &c. you are not to at-

Now of the four Cardinal, or principal Tumors in particular, to which the rest may be reduc'd; and first of

PHLEGMON.

IT signifies any Inflammation in general, even without matter, but here we use it for a Tumor from pure blood, which shut up in the Tumor, and so deprived of its natural circulation, will putrifie, if not prevented.

Sic vitium capiunt ni moveantur aque.

And if another humor be mixt with it, then is caus'd a Phlegmone Erysipeladodes, or Oematodes, or Schyrrodes; so of others: it affects the Arteries, Veins, Nerves, Ligaments, Muscles, Flesh, Skin, and the Bones, and Viscera. Its Causes before. Signs are a Swelling, Redness, Heat, Shining, pulsific Pain, unless it be far from an Artery; a Feaver succeeds a great one, or if it be in a very sensible and nervous part; dangerous, if great, or in an inward noble part, of exquisite sence, or in the Emunctories; if it return from without, inward evil, 6 Aphor. 25. the contrary safer,

fer, and the Body neither plethoric, nor eaco-

chymic.

The Cure is in greatest part laid down before; as by Venesection and Purgation, Clysters, cool, altering things; sleep cools, watching heats the Body; if Blood cannot be taken, use Cupping, with Scarification; then use Repellers, after Resolvers, and if they avail not, you must go to Suppurators; then open'd and cur'd as before. To Phlegmon are referr'd.

1. Furunculus, which is a sharp Tubercle,

of the bigness of a Doves Egg.

2. Phygethlon, broad, and participating of an Eryfipelas; for the most part bred in the

Glandules, after Pains or Fevers.

3, Bubo, not much different from the former, but chiefly in the groins whence called; of which there are three forts, venereal, which rise in the Glandules above the groin; pestilential, in those beneath; and common, in those a little above.

4. Phyma, which is also a Tumor of the

Glandules, but less.

5. Epiniciis, so call'd, because 'tis most troublesom in the night, it's a pustule resembling a scab, its color sometimes red, sometimes white, having a red crown with great pain, and at length ulcerates.

Terminthus, is like the former, having a black pustule above and below.

7. Anthrax, in Latine, Carbunculus, Ignis

Sacer, is a burning puftle with a bladder.

8. Gangrana, is a mortification of the part, in the bones, 'tis call'd Sphacelus. In the beginning, there is some hope of cure in a firong Body; if it be in a part which cannot be amputated, as the breast or groin, &c. 'tis deadly: let his diet be cool and and thin, &c. Venefection and Purgation, according to the nature of your Patient; cooling Cordials, with a little Theriac, &c. Scarifie the part, and wash it with Vinegar, or Water and Salt; then farin, orobi, fabar, &c. cum Ægyptiac. If putrefaction increase, separate it from the found, by actual or potential cauterie, applying a defensive to the found part; take away the Eschar with Ung. Basil. &c. mundifie with mel, vitel. ovor. far. bord. myrrbe, &c. if it preceed from cold, use hot tomentations, &c. which is derided in cold Northern Climates, where they foment with Snow, and rub therewith, the outward use of hot things being deadly; and we must believe them. from strait ligature, loose it, and scarrifie, as before. If from a great bruife, dilaceration of the veffels, amputate it; fo if there be no vanquishing the putrefaction,

Ense recidenda est ne pars sincera trabatur.

for better Decius perish than all Rome; leave nothing that's putrish'd, neither cut in a joint, but below, unless it be in the foot, then amputate below the knee; first purge, if you have time; then draw the sound stell upward, tie it strait, about a singers breadth, above the part corrupted, then cut the stell to the bone, scraping away the periostrum, then saw off the bone. Hæmovrhage to be stay'd by Cauterie, and Astringent Pouder, and artisticially bound up for 2 or 3 days; then if it sticks, moissen with red. Wine, remove the Eschar as before.

Now the Cure of those Tumors under Phlegmone, and so of the other three, are easily perform'd, the Cure of the principal being well understood; for propter unumquodque tale, & illud magis tale; so that I have been,

and shall be shorter about them.

Erysipelas possesses the cuticular parts, as Phlegmone the stelly; 'tis of a red colour, tending to citrine; touch'd, vanishes, and returns; pain more pricking than in Phlegmone, but swelling and beating less. Bad where the Bone is bare, or where it suppurates; in or about principal parts, in the face or neck, because of a Phrensie or Quinsie; 'tis bad to go inward, or upon Wounds, Ulcers, Fractures,

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&c. or if it grow black. Diet cool and thinner; Phlebotomy, Purging, &c. less than in Phlegmone. Topics cold and moist; forbear when it changes its color: oft to be renew'd; use no fat or oleous ones. Avicen praises cold Water. Galen, Juices of Nightshade, Porcelane. Housleek, Letuce, with a little Vinegar; in extreme pain, add Hemlock, Henbane, Mandrake, Poppie, &c. Fullers-earth, or Ceruss with Vinegar are good; the rest is performed, by observing what hath been said before; under this are ranked,

1. Virulent, corroding pustles, from Herpes to the Cancer: Now there are several species of Herpes, wanting names, but two chiefly to be consider'd, miliaris, because it contains within a matter like milium, and is superficial; exedens from thicker choler, ulcerating the skin; this degenerate into Formica, and that to Cancer. Diet, preparing the antecedent cause, as in Erysip, the conjunct not, for your Topics must be drying, as Pomegranate flowers, and rinds, ung. alb diapomph.

2. Impetigo, or Lichen, is accompanied with great itching, ends in a scaly moist, sometimes dry Ulcer; Topics must be drying and deterging; if it be Leprous, use Mercury.

3. Phytiere, like bladders in burns, full

of Yellow Water, Topics cold and dry. dre.

Oedema was a general name anciently for all Tumors, but now 'tis the name only; that cause'd of that part of blood call'd phlegins . 'tis white, foft, lax, indolent, cold; it happen, to lax and declining parts, as hands and feet far from the fountain of heat; if you press it, the print remains; it ends in resolution or nodes; common to old Men, and Gluttons, in Winter. Diet and Air must be thin, and hot, &c. and all things contrary to Phlegmon, and Erysipela's. Motion is good, in the contrary parts. Topics repelling, binding, drying, but not cooling. Avicen uses Vinegar with Borax, lixivium. Galen in the beginning ules a new Sponge dipt in warm Oxycrate; then nitre and appronitre with lixivium, and alum, if need be, with strait ligature, beginning from the lower part, less vinegar to nervous parts aq. calcis is good. In the augment ftronger, then attenuaters and refolvers, for it rarely ends in suppuration; if it do, expect not that it open of it felf; but having artificially open'd it, proceed as hereafter in Wounds and Ulcets.

To this may be reduc'd,

I. Emphysema, or a windy Tumor, bred within the cavity of some part, as the Stomach, or in the mufcles, refifts the touch, (whence

(whence it differs from Oedema) founds like a bladder, shining. Here Phlebotomy is us'd, only to give breath to the mind included; purging, Topics, &c. as in Oedema: before you applie Topics, anoint the part with some chalastic oil. Form of attenuaters, with emp. bac. laur. and cupping, are good; some use calx viv. boil'd in Wine; others add stercus

columb. finapis, &cc.

2. A watry Tumor is without pain, from a ferous humor; in the skin 'tis call'd bydroa, in the head bydrocephalos, in the cod bydrocele, &c. the natural heat is weaker than in emphy sema, yet for the most part wind and water go together. It refifts lefs, shines little, found as of floating; if the ferum be falt, it itches. Topics as in Oedem. and Wind, adding aphronitre, alum, sulphur; the following is ftronger, R. Sem. Smap. urtic. Sulph. Spume maris. aristoloch. bdel. ammon. in aceto dissolut. an, 3iii. ol. antiqu. cera, an. q. f. F. Empl. which, faith my Author, refolves Winds, Waters, Scrophula's, and all hardness, within a Week's aque thermales are also profitable; if nothing avail, open it, and cure as an ulcer.

3. Glandula, foft and moveable, intire,

mostly in the Emunctories.

4. Struma, is harder, manifold, fixt, oftnest generated in the neck.

5. Ganglion, bred about the nerves, and articles;

articles; 'tis indeed a concretion of the nerves, by a blow or labor, small, the skin color'd, hard, indolent, if press'd, a numness is perceiv'd.

6. Lupia, round, foft, bred most in joints

and drie paris.

7. Nodus, round, hard, possesses the ner-

8. Testude a great Tomor full of melleous

humor.

9. Talpa, or Topinaria, is a species of the former, in the head.

10. Nati, a great Tumor like a Cucum-

ber, oc.

11. Atl roma, contains a humor like Puls.

12. Sanoma, like fewet.

- 13. Alliceris, like honey.

As to the last three, note that they often contain all kind of matter aforesaid, and sometimes stones, bones, hairs, &c. and have all a cystis, and increase by degrees; and Atheroma is longish, if prest returns slowly; Meliceris is rounder, yields easily, and quickly returns; Steatoma safer than the rest, and hath a larger Basis; yet Atheroma may be suppurated, Meliceris resolved, but Steatoma, only cur'd by Chyrurgery.

As for others the loofe have a cyftis, the fixt none; the new and fost may be resolv'd, the hard and inveterate not; painful and red,

portend a putrednels, fistula, cancer : diet, &c. as in Oedema.

In the Cure of these observe,

1. If the excrescences be small, soft, cysis thin, tare them away with the singers, or instrument, as Guido, Prince of Chyrurgions, counsels; then dried with a Plate of Lead, or ung. è plumbo usto, fuligine cum ol. & aceto.

2. The moveable that will not yield to Medicines are to be open'd, the cyftis taken away, having always a care of veins, &c. as in the head, belly, &c. make your incision long, or across, then warily separate the Tumor, for breaking the cyftis, either with singers or spathula, and draw it out; if any remain, absume it with septics, or caustics.

3. Those that have a small root, are to be tied strait, with hairs, or silk, &c. till they

fall off.

4. Those that have a broad basis, and fixt, are to be eaten away by caustic, and then cur'd as ulcers, applying cool desensives a-

bout the part.

Schyrrus is a hard, livid, indolent Tumor, caus'd of melancholy, hard phlegm, or both: if from unnatural, or mixt humors, it hath sense, and is curable, the other hardly; seldom possesses rare and soft parts as the lungs, often hard, as tendons, ligaments, &c. livers spleen,

spleen; that which is hard by driness, scarce admits a cure; very apt to degenerate into a Cancer, Diet, Preparation, &c. moderately hot and moift: If blood abound, and wonted evacuations supprest, procure them by Phlebotomy, Leeches, &c. preparing and purging with Melanogogues. Topics are here warily to be us'd, for there's danger of inhardening from too much Resolvers, and corruption from too great Softners, whereby it cancerates; therefore Emollients are to be mixt with Resolvers. Hardness proceeds from Repletion, as in ascite, tympanite; or from coldness, as in Ice; or from exiccation as in the joints: The first requires Evacuators, the fecond Calefiers, the third Mollifiers: If from coldness and driness together, Calefiers and Mollifiers: If from cold and repletion, Calefiers and Evacuators, The Tumor Softned. you may use vinegar warily; because though it resolve, it hurts the nerves. Galen us'd fotus, and fumes of vinegar, made hot with flints; then return to Emollients.

To this is reduc'd, 1. Cancer, a round, hard, malignant Tumor, of a dusky color, painful, burning with swollen veins about it; beginning from the bigness of a Bean, but hugely increases, especially if irritated by hot things; possesses Glandules and Dugs oftest; chiefly after suppression of months

and hæmorrhoids, 'tis a particular Elephantiafis: If confirm'd, 'tis not cur'd but by excifion; better leave it, than attempt - the Cure, 6. Aph. 38. unless you cut up by the Roots, tis in vain, for 'twill not be cicatriz'd. cool and moist, Phlebotomy altering, purging melanch, humors, are oft to be repeated. Fontanella's in fit places are good. Topics must refrigerate, as suc. solan. cum Tutia, for sharp ones accelerate an Ulcer. Lytharge, ceruff. cum ol ros. were sufficient to Galen. Avicen praises Water Crabs with brass oar. ther add suc. semperviv. plantag. symphyt. burs. pastor, acetos. lactuc. portulac. polygon. &c. mucilag. psyllii; some add papav. byoscam. mandrag. &c.

2. Verruce, like hillocks in the body; some are called myrmecia, because by scratching them, 'tis like the biting of Ants; they have a broad bafis. Acrochordones a na rrow hanging one, Thymi resemble the flower of the herb, have a narrow basis, but sharp, reddish, hard, with a broad head; increasing, they are call'd Ficus, they chiefly infest the hands, feet, thighs, anus and privities. Many things are laid down for their Cure by Authors, as Elater. cum fale; suc. tithymal. sublimat. sulph. viv stercora avium, ovium, columbar. caprar. cum aceto. ol. vitriol. aq. fortis, which laft, all other failing, the learned Dr. Primrofe fays, cur'd myrmeciæ

myrmeciæ in his hands, when a Boy. Excifion, where it may be, is safer than the actual or potential Cautery. Bind those strait that hang down, till they fall off. In Galen's time they tore them out with their teeth.

3. Varices, are veins dilated with melancholy, flatulent, sometimes pure, or pituitous blood, cap. 4. de atra bile; oftest in scroto, thighs, leg, sometimes by too long standing; hence Varicos Auruspex, Juvenal. They profit in melancholy discases, Aph. 2. l. 6. supprest they cause them, therefore hardly cur'd in those troubs'd with the spleen. After general remedies and preparations, cur'd as Aneurisma, but Incision wants not danger, less the suppress melancholy blood should fall upon the viscera.

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Aneurisma is a soft, lax Tumor, caus'd from a dilatation of the artery by its blood; some say ruption, the skin remaining whole, but then the blood would putrifie, &c. 'Tis familiar to the breast, throat, groins, Women with child, because of the compression of spirits; also a wound of the artery, whether illy clos'd, or one coat hurt. Tis indolent, with troublesome pulsation, being press goes inward, which it would not do, if the blood was extravasated: neither doth it beat in great dilatations; here's fear of a Gangrene. If inward, 'tis not to be cur'd, nor where

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Chyrurgery cannot be perform'd, as the throat, &c. but you must use a cool diet, astringents with compression and strict binding, or a plate of Lead, &c. If these fail, tie the ends of the artery, and cut it in the middle.

Thou may'st expect, perhaps, Reader that I should have said something of the doctrine of the Chymists concerning Tumors; but the smallness of this Volume will not permit: Moreover, when I consider what our samous Dr. Read hath lest to the young Artist about it, I think it may suffice; for he tells you, Their doctrine is full of difficulties, which they make more obscure by coining strange words; so that it is but a kind of canting Philosophy: And calls it the Carbonary Cure of unlearned Alchymists; and if any one will mispend good hours, let him read Paracelsus's great and little Chyrurgery, says he, which are like Clouds without Rain. Thus that Learned Doctor.

Of Wonuds, and first in general.

A Wound is a solution of continuity, from an curward cause; in the sless, the Greeks call'd it trauma, in a bone catagma, in a nerve spasma, in a ligament apospasma, in a muscle thegma, in a vessel thlasma, Gal. method. medend.

dend. lib. 4. The differences in their places, Canses, any thing that may separate the harmonious economy of humane nature, as a sword, dart, bullet, bite, overstretching, fire, &c.

The diagnostic Signs are apparent. As to

the Prognostic.

1. Great Wounds are dangerous, by reafon of the excellency of the part, malignity or magnitude of the Wound; yet a small Wound illy handled, may prove mortal.

2. If the bladder, brain, heart, midrif, liver, fmall guts, fromach, be wounded deadly, Aphor. 18. lib. 5. because of their necessity, viz. if they be great, for a small particle of the brain loft, the Wound hath been cur'd; fo in the substance of the liver; so in the fleshly part of the midrif, bladder, (as in extracting the stone) stomach. But Wounds penetrating the heart, brain, are mortal, because of continual motion, and loss of spirits; yet Galen upon this Aphorism, says he saw at Smyrma, a Wound penetrating the brain cur'd, but adds, 'twas Gods will. Also of the midrif, and lungs, for their motion and remedies not touching them. The same of the cartilaginous parts of the wind-pipe, because bloodless, and always breathing; the Wezan, for the frequent passage of meat and drink; the great veins and arteries, for effu-

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find of blood; the reins, because they are the fink of bad humors; and remedies come not to them but by divers meanders. The spleen

not so dangerous.

3. Wounds of the joints, and these in the end of muscles, ligaments of the temples, because nervous, whence follow death of the whole, or part, or loss of motion, because of convulsion, and such bad symptoms: but if tumors appear there is least danger, because they avert the humor from the brain.

4. In very scorbutic, cacochymic bodies difficult. The Spring better than Winter, for cold hurts, 5. Aphor. 20. by hardning the skin, hindering suppuration, causing severish shiverings, spatms: Heat contrary, yet too

much hurts; better in young, than old.
5. A bruise worse than a cut, ceteris pari-

bus, a great cut worse than a small bruise.

6. Spermatic parts are united by the second intention, as a bone, prepuce, &c. by a callus, cicatrice, and so more difficult than sanguine, as the sless, &c. which unite by the first; yet veins and arteries being soft in children, may consolidate.

Now the general intention of curing is union, which lippis & tonsoribus notum; but how 'tis perform'd, bic labor, boc opus; for natura est morborum medicatrix, the Artist is but natures Minister, who, to perform his part

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f. a. citò tutò & jucunde, (wherein lies his glory) makes use of five subalterne Indications.

The first is to remove extraneous and heterogeneous bodies; either with, the organ of organs the hand, or other instrument; if the wound be too strait, 'tis to be enlarg'd safely; put the Patient in the same posture he was wounded, to draw forth the Weapon the same way if possible, if not the opposite, if neither, for sometimes

Ægrins adimitur quam non admittitur hospes,

leave it to Nature. Some believe Medicines draw, of which before; but trust them not much, neither those of the Loadstone and Ambar; for these poudred, lose their attractive virtue.

The second is to join the separate parts as gently as possible; if they be rigid by cold, foment them with a mollifying decoction; which avails little, unless by

The third Intention he conserve them so join'd by ligature, or suture; the first hath three sorts:

First, The Retaining; for parts that ad. mit of no other, as in the neck, belly, and painful tumors, &c. 'tis done with a rowler of one or more heads, beginning at the part affected,

affected, and sowing it on the opposite. Here you may see, according to Divine Hippocrates, Some Bandages are Remedies themselves, others subservient to Remedies; of the last kind is

this, the following of the other.

Secondly, The incarning or glutinating for fractures and fresh wounds, not deep, or transverse, but long; 'tis persorm'd by a rowler folded on both sides to the middle, beginning at the opposite part, bringing one head upwards, the other downwards cross ways, to be straiter upon the wound than

other parts.

Thirdly, The expelling, for deep, hollow wounds, to press humors from the bottom to the orifice, and prohibit influx of humors; it reaches from the lower part of the Wound, to the upper, where it's to be laxer, unless it be to prevent fluxion, then straiter. This operation is of so great use in Chyrurgery, that there is not any thing of consequence to be done without it; and in the Cure of Wounds so great, that some Years since, among others, Septalius, a famous Phylician, practiting at Milan 40 or 50 Years, writing learned Books; and Magatus, a famous Professor in the University of Ferrara, condemned the use of tents, and give almost all the effect and glory of the Cure to Bands and Bandages, helping to maintain, with Emplasters;

plasters, the natural heat, on which depend (fay they) the whole Cure.

If any shall object, that this operation is not observ'd in the Cure by the Weapon

Salve, attributed to Paracelsus.

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I answer, the use thereof hath been condemned by reasons of the most sound Theology and Physick, and the Author noted for impiety and magick: so I would not have thee to trouble thy self about it: and the great Senertus hath learnedly resuted its use. The same may be said of the Sympathetick Powder.

Suture is threefold likewife,

First, Incarning is for all Wounds where deligation is not sufficient; 'tis done either by a thred rub'd with white Wax, drawn first through the middle, then on both sides the Wound; or by leaving Needles-with thred twin'd about them till consolidation; or by cloths, call'd the dry stich, where a deformity is fear'd. Take two pieces of cloth folded, triangular, or quadrangular, according to the sashion of the Wound, dip them in agglutinating Medicines, of sang. drac. mastic. ichthyocolla. sarcocol. gum. arab. trag. &c. cum alb. ovi. apply them to both sides a singers distance, when they are dry sowe them close.

2. Retaining is the Skinners stich, for the veins,

veins and guts; suspicious, because one stich

broken, the rest are lax'd.

Thirdly, Conserving differs not from the rest, only laxer for torn Wounds with loss of Substance. Stich not before pain and tumor be abated, or in bruises, or bites of venomous beasts, or if alter'd by the air narrow and deep, or where the bone is bare or broken.

Here may be faid something,

T. Of Bolsters, made of linnen, cotton, &c. doubled, sometimes dry, sometimes moissned in oxycrate, wine, oil, &c. to imbibe Ichors, conserve heat, or ease hardness of bands.

2. Plegets, Tents, &c. to mundifie or incarn, made of lint; if to keep open, of lead, &c. to dilate, of spunge, elder pith, &c.

The 4th Intention is to conserve the parts

temper, which is done,

1. By convenient Dyet, thin till the 7th day, observing custom in what may be, for 'tis not easily alter'd on a sudden; much loss of blood, requires more nourishing; sleep long, if much pain; troubles of the mind, and coition hurt.

2. Phlebotomy, unless a great Hæmorrhage

preceded.

3. Purgations, Clysters evacuate, revel, dry, as before.
4. Topics,

4. Topics, to be repelling; dryer in a dry part; in a small Wound, moist part, hot time and region, milder, è contra stronger, apply'd cum album. ovi, & bares furr.

5. Glutinaters, of which before.

Here comes in the use of,

per in fresh Wounds, because, as commonly set down, are too hot; in old ones, ulcers, &c. they may.

2. Of Balfams before; and that incomparable liniment of Arceus, never enough to be

extoll'd.

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The 5th Intention is the correcting of Symptoms, which hinder healing. Pain appeas'd by Anodynes or Narcotics, before; Tumor, before. Hot, cold, dry, moist intemperature of the parts cur'd by its contrary, as before. Convulsion in Wounds of the Nerves. Syncope, Delirium, Vigilia, in their places. Pruritus comes from sharp humors, Excoriation from scratching, sometimes instammation; soments of salt water warm, ung. de Ceruss. alb. popul. &c. are good.

A Wound in the first is simple, or with loss of substance, superficial or deep; in the first, observing the premises, if blood flow too

much stop it, else 'tis good.

A hollow Wound, or with loss of subflance, stance, is not only to be united, but incarn'd; the two excrements thin fanies, thick fordes mundisi'd and dry'd: Astringents, detaining the excrements, hurt; detergers i degr. dryer than the part; hot require hotter, &c. so in moist parts Thus generates slesh, and dryes; in dry, moistens and suppurates. Weak farcotics beget plenty of fanies, soft slesh, strong è contra: reduce the nigh part to the same temper, regard contrary Indications, as if the Patient be of moist nature, the Wound in a dry part, and contra; the Medicine must be drying 2, 3-degr. so of age, time of the Year, region, &c.

The Wound fill'd with flesh, is to be skin'd, which is Natures work yet imitated by farcotics of 1. Glutiners. 2. Or Cicatrizers

of the 3d degr.

If by neglect, or too long use of Sarcotics, omitting Epulotics, there be Hypersarcosis, which is a solution of continuity complicate with increase of magnitude, remove it by dryers in 4. degr. not so in themselves, but to the part; which observe in other cases.

In a bruised Wound, is dilaceration, tumor, livid colour. Universal premis'd, as in Revulsion, apply to the part lenients and maturants, to the Wound digestives, &c. if necessivy for suture, let it be lax. Echymosis or a contusion without a Wound, is a deep lacera-

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tion in musculous stess; Subenticular, essusion of blood, livor, dolor, sollowing: if great, a Gangrene's in danger. Universals premis'd, appease pain, defend the part, bind strait; after if the humor be thin, resolve; if it cannot be resolv'd, use cupping with scarification, or, if need, suppuration, open and cure s. a. inwardly are wont to be given things to dissolve blood, of rhabarb, mummy, &c. in wine, oxymel, syr. limon, acetos. &c. if need be, wrap the body in a sheeps skin, newly kill'd, anointing with resolving unguents.

In venomous Wounds use not dryers, repellers, but drawers, mundifiers, as cups, cauteries, &c. beware of sleep; Animals cut in the middle, both draw the venom, and ease pain; if the part be ignoble and dangerous,

cut it off.

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If the veins or arteries be wounded, much blood flows, and so syncope, &c. at last death. Arteries leap. Revel, thicken with Medicaments, and Aliments, stupishe and cool inward and outward; use the skinners stich, if no loss of substance, with astringents; or cut the vein transverse, or take the artery with your forceps and tye it, using farcotics, let it untie of itself; or by actual or potential cautery, more proper in corrosion; procure not the sall of the Eschar. Or make a thrombus, by putting your singer to the vessel; then cure s. a. note

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an artery requires stronger medicines than a

Nerves are wounded by puncture, sciffure, contusion; a puncture, is close, or open; sciffure, long or transverse; figns are hurt of sense and motion, convulsion, &c. and if the whole Nerve be cut; nay, it may fometimes be divided to prevent danger, for better Decius perish than all Rome, in a puncture, because sordes cannot evacuate. Good if a tumor appear, illif it go in, or appear not, 5. Apho. 65. 66. if foft, good; hard and crude, bad; ligaments and tendons are less dangerous; to which agree dryer medicines, chiefly if they iffue from bones. Here pain is chiefly to be regarded, Union not needful in a puncture; cut a vein, and purge, though no plethora; if a spasm happen, anoint the head, neck, back, &c. el. lilior. &c. in tumors use not maturants, because they putrisse the nerves; to the Wound use of terebinth. Sabin. byperic. com. &c.

A Nerve cut, if much, slich the lips of the Wound, using universals as before, keeping in the lower part a tent of digestives, not sarcotics, till danger of spasm, and inflammation

be past.

If a Nerve be bare, abstain from Euphorbium, &c. applying dryers without sharpness, unless the Wound be very putrid; apply them

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not with water and oil, because that corrupts; this weakens Nerves if bare; otherwife if cover'd.

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A bruis'd Nerve needs dryers and binders, never omitting preparations of terebinth. in all concerns of the Nerves, some add fal. mel. sulpbur; in contorsions only emollients fit.

A Wound in a bone differs from a fracture, because this is without incision; 'tis united by the second Intention. Erysipelals, or cold upon a naked bone, ill; great bones cut, that the marrow flow out, dangerous, for sear of a Gangrene, draw not away the fragments suddenly, but assist Nature by attracters, then use stitching, very strait bandage, with universals: in the declining part leave a tent of mel. rosat. terebinth, myrrhe, upon it assistances, cum alb. ovi, then as in Nerves. Calius elsewhere in Fractures.

The Head may be cut or bruis'd with, or without a wound, fracture, penetrating, or superficial, great or small, simple or compound, with lasion of the membranes, and substance of the brain. A Wound with a fracture penetrating, is either small, neither pressing, nor pricking the brain, or great, which doth both; or tis only a depression, as in copper vesses, which happens to Infants; or that part smitten, but the opposite is eleft. Hippocrates calls them by divers names. A

con-

contusion is known to all; Rima is a small division, the bone keeping its place on both sides; Sedes, when the print of the weapon remains, the bone keeping its place. Desidentia is the bone remov'd from its place, which sometimes presses the membrane. Depression is call'd thlasis. Camerosis, when one or both tables elevated, tis rare; Eccope when part of the bone is amputated; Apechema, when the contrary part is clest, which many

deny.

If the figns of a fracture appear not, they must be guess'd at from the cause, as a great blow, fall, wound, instrument; if he move his hand often to his head, vertigo, caros, loss of speech, motion, vomit, follow from the beginning a great fracture econtra less: though these may happnen without a fracture from a concussion, or blood flowing upon the brain, and putrifying; 'tis known also by a Probe, if it feel smooth, the bone is whole; if rough, if not upon a suture, suspicion 'tis broke.' he hold his breath, moisture passes at the fiffure. If thred held in the teeth, be struck, or any thing broken with them cause pain; if ink black the fissure: also lay an Emplaster; if one part be dryer than the other, there's the fracture. If the Membranes be cut, pain, vertigo, blood at ears, nostril, palate, loss of motion and speech follow, agre dormit excer-If nit & mingit.

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If the Brain be hurt besides these, the prin cipal faculties are hurt. If there be an inflammation, the head swells, eyes inflam'd, with convulsion and phrenie. No Wound on the head is to be contemn'd, oft only a contulion, oft an incilion of the pericranium, proves dangerous. All fymptoms are worfe the sooner they appear: oft they lie hid till the 7th day; a Pallie of the hurt fide, a spalm of the opposite follow the membranes wounded. Wounds of the futures are to be feared, chiefly of the temples; sedes also there dangerous. Pia mater black, bad, a small tumor, good fanies, red flesh, good. Danger not patt till the 100 day; greater, in the full Moon; Callus not perfected till the 35th, finall clefts ill; also if the outward Table be whole, and the inward cleft; fo apechema, because sames cannot be discharg'd at the Wound; general Prognostics are to be reduc'd hirher.

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About the Cure are divers opinions; let dyet be thin, shun too much cold or heat; premit universals; shave the head, and mitigate accidents. Bind with a two-headed rowler, according to the length of the forehead, rowling it towards the ear opposite to the Wound, and from the other part towards the other ear.

If the Scull be hurt, enlarge the Wound if

need be, cut not transversly in the forehead, lest the eye-brows fall; nor in the temples or future, because of the veins, nerves, &c. and connecting the meninges to the pericranium, make the cut thus X; if the bone must be scrap't, cut the pericranium: if only a little cleft, cure as before. If it penetrate the bone, cut it with sciffers, or trepan, premitting Prognostics, as weak natures, shunning futures, lest the dura mater be hurt; before the 4th day in Summer, 7th in Winter, for fear of bad symptoms. Hemorrhagia appeas'd with oxycrat, and alb. ovi, the next day use the trepan, then the sciffers, and levatory, after cure as a fracture: Take away the fragments of bones, that prick the membrane; then some use dryers, for siccum sano proximum: others lenifiers; dryers that the membrane putrefie not, and fo scale, as cephalic plasters and powders; drefs the Wound with lin. Arcei. If the membrane be hurt, first use anodines, then dryers. If there be a tumor, ol. rof. cum melle, those that lenifie use ol. rof. fang. columbe. &c. mel. terebinth. ol. de vitell. ovor. then use dryers, and if you deterge more mel, &c. se me use for. rofar. brandy, then farcotics, emp. If the membrane be livid, mundifie; if blackness continue, deadly.

Wounds of the face have nothing pecu-

liar.

Wounds of the eyes are puncture, incision, bruise, dangerous for nobleness of sight, near the brain, loss of sight by diffusion of tumors; yet Galen saw an effusion of the aqueous humor cur'd, of all which before.

The Nose cut off closes not, else stich it; put pipes in the nostrils, to let in Air, and out

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Wounds of the Lips and Ears, have nothing peculiar, neither, fave shunning all

thick, unctuous medicines, oc.

Wounds of the Neck are dangerous, because of the veins, nerves, arteries, &c. if the marrow be touch'd with the spine, motion is abolish'd; hoarsness follows Wounds of the recurrent nerves; bring your ligature across upon the Wound, and under the arm pits, and sowe it to the cap. Great Wounds of the Trachea arteria & Oesophagus, are united by stiching the sless, and applying glutiners; and licking diatragae, cum sir. Symphyt. myrtin. troch. de Carabe, &c. to the spine apply ol. rosat. warm, then mundifie and incarn. If the marrow be wounded transversly, 'tis incurable.

Wounds of the Shoulder and Arm, have nothing different, unless in binding, which ought to be strong, and in site; for the Arm wounded must be suspended, the Elbow ex-

tended.

244 PADE MECUM: Or,

If Wounds of the Thorax penetrate, Air iffues, especially the mouth and nostrils shut; which a Candle, or wool laid to the Wound, shew; great weight felt about the diaphragma, blood spit with cough, difficult breathing, &c. blackness of blood, extreme parts cold, cold sweat, swonning, shew the heart wounded; short breath, red, frothy blood, with cough, paleness without pain, shew the lungs wounded; plenty of blood, strength failing, in the right fide of the back, thew the vena cava wounded. From an artery iffues redder, frothy, thinner blood, leaping, a trembling pulse, palpitation of heart, syncope, death fuceeeds. From the wind-pipe iffues little blood, but great pain in the back, hoarfe voice, fætent vapors, fever. The Weasen wounded, meat paffes difficultly, it and drink issue; pains are increased lying, lessen'd standing; thirst, unquietness, fevers succeed. The spine wounded, the inferior parts become paralytic, diffended, urine, dung, feed issue, involuntarily, deliriums, but not always. The Midriff hurt, breathing quick and difficult, cough, pain, doting, livid spittle, thirst, belching, pricking rigor, the wound about the bastard ribs, the precordia are pluck'd upward, pain reaches to the shoulder. Heaviness about the false ribs, putrid spittle, cough, fever, stinking breath, thew bleeding inwardly, because it putrifies, 6. Aph. 20. All penetrating Wounds are dangerous, because of the inflammation of pleura, and commonly end in fistula's or empyema's. Evil if black, or fatent fanies issues; if a nauseousness, hichoup, vomit, or flux. More dangerous behind than before, because of the spinal marrow, arteries, nerves, ligaments of the heart. If they penetrate not, there's no danger, unless a nerve, or notable vessel be wounded.

Neither as to the cure have they any thing peculiar; begin your ligature at the opposite part, bring it cross ways upon the Wound. If a rib be broken bruis'd or depress'd, see in fractures: if it be bare, 'tis to be scrap'd,

then the Wound cur'd, f. a.

But penetrating Wounds, if the viscera be not hurt, nor inward bleeding, are cur'd by sarcotics and ligature, without tents, premitting universals, and keeping open the wound; if any thing be scatter'd within, dilate the wound, if need, and put in a tent, tyed with a string: stich it not, less the matter degenerate into Empyema, cause difficult breathing, because it cannot be vacuated by mouth, or urine, though it may sometimes be; whence in an Empyema, the side is forc'd to be open'd; upon your tents lay compresses dipt in alo. ovi, ol. ros. vin. rub. taking heed of metallics inwardly. If the matter be thick, and

will not issue, inject detergents, as wine and mel; and when it comes out as clear as it went in, then astringents. If matter lie upon the Midriff, and the sick strong, cut a new wound lower towards the spine, between the 4th and 5th rib; put in a tent with ol. rosat.

warm, mundifie, &c.

Wounds of the abdomen, are known to penetrate the peritoneum, omentum, intestines, &c. which some time come out, by putting in a Probe, or injecting Wine, if it return not; the Caul is known, the Stomach wounded, Chyle flows, with hichoup, nauseousness, vomit, &c. The same of the small guts, in the great ones fæces iffue; much blood at the right fide, if the liver be hurt; on the left, if the spleen, with Pracordia contracted, pain, fe-The Reins hurt, Blood issues by urine, fometimes suprest. From the Bladder with great pain, vomit and hichoup, by confent with the stomach. From the Mesentery befides Blood, convultions, from the nerves. Pain in the groins and thigh, follow the Womb wounded, Blood at the Privities, and by confent with other parts vomit, pain at heart, delirium, &c.

Of the Prognostics before.

To the Cure, if the Wound be great, first put up the guts, fomenting them, if need, with aq. calid. vin. rub. ol. or carminant decoction.

Wound; the same of Omentum: And if any part be black or livid, tye it, and cut it off: then sowe up the Belly, the Muscles and Peritoneum together, some the Peritoneum with the Peritoneum, Abdomen with Abdomen, leaving issue below for sanies. If the guts be wounded, sowe them with the glovers stich; other parts have nothing peculiar, only in the Bladder abstain from Diuretics and Purgers.

Wounds of the Thigh, Leg, and Foot, the

fame with the Arm.

Of Wounds from Gunshot.

The names of these Arms, Bombarda and Scloppeta, are borrow'd; the first from Bombos, i. e. Sonitus, properly of Bees, so Persius.

Torva Mimalloneis implerunt cernua bombis.

The other from Scloppus, a found made with the cheeks, fo the same Persius.

Nec Scloppo tumidas intendis rumpere buccas.

Concerning the invention of these Arms there are divers opinions; some attribute it to a German Franciscan Fryar, 1380, others say he was only the perfecter, for there was a M4.

rude use of Guns besore. For in the time of Carolus Magnus, who dyed about 810, or 811, Gamoscus King of Friesland kill'd the Count of Holland, with two of his Sons, with a Piece. Nauclerus says, they were invented 1213. Froifard, and Petrarcha, 1340, and 1374, mention Guns. Mariana tell us, when Alphor sus King of Castile belieged Algezira, a Town of the Moors, they shot out of it Bullets of Iron out of Ordnances. And Matterus fays, they were used by the Chineses many Ages ago: which may not be improbable, they being a wife People; fo though the word Arcubuse may come from the Italian Arco, a Bowe, and Buso, a Hole, because it is as it were a Bowe with a Hole, or a hollow Bowe; they may not be the inventers neither, though stoutly stood for by the learned Roff.

Now as to the nature of these wounds, they are made with contusion and laceration, sometimes fracture, seldom venenosity join'd; for the common ingredients of Powder and Ball are harmless, and may be safely taken inwardly in divers diseases, as Brimstone, Saltpeter, Aq, Vita, Coals of Willow. For Lead and Iron, several preparations are made of them to be taken inwardly; so that the bad symptoms, if any, arise from Cacochymy. The Signs and Prognossics, and Cure, as in other

other wounds: the chief being a Gangrene, I hope I have satisfi'd thee in; if not, see Fallopius or Vesalius, for one hath transcrib'd the whole Chapter from the other, scarce changing a word:

Sic velut è speculo speculum tralucet imago.

Also for Burns from any cause, thou may'st find a Cure before.

Of ULCERS, and first in general.

And here I shall not need to be prolix, being what's said of Wounds, will save me and the young Artist much labour, if he be ingenious.

Now an Ulcer, in general, fignifies every folution of unity, from elko, traho, either because it distracts the parts, or it draws blood to it. So when the divine Hippocrates says, Omnis morbus ulcus, he is to be understood of Union Physical, which is the temperature; as well as mathematical, which is the figure. So the Grecians in general us'd the words Wound and Ulcer indiscriminatim, though in special they differ in Signs and Accidents, &c. Hence an Ulcer may be defin'd,

A Solution of Unity in the Flesh, with Sanies. Solution of Unity is the Geaus, whereby it

is common with Fractures, Wounds, &c. fanies makes it differ from a Wound, and from teredon or caries of the Bone, because in a hard part. Now as One and Being are convertible, Arist. 10. Metaphysic. and Unity being the perfection of Being; so Health, which is the perfection of our Bodies, require Unity to the performing of the Functions; so that you see of what consequence is the preservation and restoration of Union.

By Sanies, I understand the excrements of Ulcers, which is any humor preternaturally alter'd; 'tis thin, cald, Ichor; or thick, Sordes, or mean, Pw. Virus is an excrement of thin; aqueous humors. Sordes the excrement of thick humors, and is three-fold, white, blackish, ashy, thick, unequal, concrete. Squamme, are small hard excrements, like Fish-scales, from nitrous humors about the Ulcer; Cruste, are thicker, upon it.

Causes are sharp humors, corroding, &c. as

before; Differences in their places.

Diagnostics are apparent, in outward, of which only here; great ones are dangerous; if of long standing, malicious: in annual Ulcers, the Bone must needs be foul. &c. Aph. 6. 45. Bad in the ends of the muscles of the back, hip, &c. round heal slowly.

An Ulcer, quatenus an Ulcer, must be dry'd; removing the cause, and symptoms first; if

flesh be wanting, use Sarcotoics. Dyet, Preparation, Phlebotomy, Purgation; you have Rules for before. In the beginning, use, Suppuraters, unless it be putrid with flux of humors: in the Augment deterge, but not too much, for then 'twill become virulent; which many thinking to come from the Ulcer use stronger, so hurt. Lastly, Sarcotics, Epulotics. Of Symptoms before. If the lips be hard and livid, see Schyrrus. If you succeed not, scarifie to the flesh, or use an actual Cautery, or Ol. Vitriol. Sulph. &c. to blackness scarifie, or use Cups, Leeches. Worms are to be kill'd with bitter and deterging things.

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An Ulcer, with a corrupt Bone, is difficult; the Bone feels foft, &c. much thin, livid, oleaginous, fætid, black humors flow, which is bad; scrape the Bone, or scale it with Catheretics, as before. If carious to the marrow,

cut off the Bone, where you may.

A virulent and corroding Ulcer, differ only secundum majus & minus, this more vehement call'd Nome, and Phagedena, and degenerates into Lupus and Cancer. Nome hath no tumor, Phagedena hath about the lips: cause, and all other things, as in Herpes, &c. Topics cold, dry, stiptic; Guido praises a plate of Lead rub'd with Quicksilver laid upon it.

A for-

A fordid and putrid Ulcer differ, secundum majus & minus: Begin with strong detergers, because the thick sordes oft resists the strength

of medicines, and so proceed s. a.

A cancerous Ulcer is round, fætid, with hard, livid lips invers'd, with veins about it full of black blood, with much fætid, black Sanies, great pain, &c. after general Remedies, &c. if it may extirpate; else if it be inward, nigh a noble part, palliate, with refrigerants, as aq. solan. ung. alb. plumb. ust. and other Minerals, wash'd in a Lead Mortar, Plate of Lead, &c. some apply Chickens and Veal, which they say it eats, whence 'tis called Lupus.

A deep Ulcer hath a narrow Orifice, and broad, with many cunicles, without hard lips, wherein it differs from fiftula; known by sending forth much Pus, and by a Probe,

Wax Candle, or stalks of herbs.

After Universals, use mundifiers, dryers, and incarners, with expressing ligature, and if need, open it at the bottom; if danger, in-

jections only.

A Fistula, sometimes sends out much, sometimes sew excrements; Cure is difficult if old, nigh a noble part, belly, bladder, vertebra's, joints. If it be far from a noble part declining it preserves from diseases, so cure not. After Universals, use dryers inwardly,

as decoction of Guajac. Salfa. &c. then dilate with Gentian, Spunge dipt in melilot plaster, with sublimate prest, elder pith oft breaks in taking out, then mortifie with Catheretics, Septics, &c. dissolv'd in vinegar, or aq medicamentos. injected, some use Cauteries and Incision. To conclude, take here two much used Waters for old Ulcers and Fistula's.

The first is the great Fernelius's aq. di-

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Aqua divina Fernelii.

R. Sublimate gr. vii. aq. plantag. 3 vi. boil them in a well glazed vessel, on coals gently, till balf be wasted.

The other is,

Lapis Medicamentofis.

R. Green coperus to i. white coperus to \(\beta\).

alum. to i\(\beta\). \(fal\). \(nitr. \) \(fal\). \(com. \) an. \(\cert \) iii. \(falt\) of tartar, \(mormwood, \) mugwort, \(cichory, \) \(arfmart. \)

plantan. \(an. \cert \beta\). \(put\) them in a crucible, adding a little acet. \(rof at. \) boil them on coals gently, ever firring them till they grow thick, then \(add\) cerus. \(then \) ib\(\beta\). \(boil\) \(armen. \(\cert \text{ziv.} \) mix them \(mell\) together till they be hard, \(mhen \) cold, take it out. If you put in gums, as Thus, \(Myrrhe\), &c. boil them but

but little; one ounce of this is to be disolv'd in rath or river water, one pint, and filtred.

Of Fractures, and first in general.

A Fracture is a folution of continuity in the bone by bruise or cut; 'tis either fimple or compound: the first long, transverse, oblique, or streight, complete, or incomplete. Compound with a Wound, Tumor, &c. known by inequality of the member, one part bunching, the other hollow, great pain from pricking the fensible parts, unable to move. If long, only tumor and pain. The transverse and near the joint difficult, so with tumor, wound, contusion, fragments, old; for in great extension, fear of spasm; in great bones, and manifold, all difficulty folidate: where are two bones, one only broke easier than both, because the whole sustains the broken, bad if with luxation. Arms and Legs knit in 40 days, thigh 50, the rest about 20. too strait ligature hinders nourishment and knitting.

If simple, the Cure consists in restitution, conservation of the bones, generating the callus, mitigating accidents. To which are needful a fit place, and Servants, three row-lers, long and broad, according to the bigness of the part (which remember in Wounds

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and Ulcers, &c. viz, commonly in Wounds fix fingers broad for the floulders, the thigh 8, leg 4, arm 3, finger 1.) foft stupes, moiften'd in oxycrate; splints of scabbards, pasteboard, leather, or iron, thicker in the middle than ends, Frames for the member, a Bed and Bed-pan, a string to raise him up; two Servants to help reduce, directing the bone on both fides, with hands, strings, or other instrument. The bone reduc'd, is to be conserv'd by ligature, and fit posture. Hippocrates counsels threefold ligature; the first ascending upwards from the fractur'd place, hinders flux of humor; the second descending from the same place, presses the humor; the third conserves both, and contains the fplints, he moistens them in ol. rof. if a wound in vin. rub. the Patient can tell when bound too flack or firait. In the beginning apply gentle splints, then stronger, stir them not often, unless pain, tumor, urge; then the 3d day, elfe 7th, then his dyet may be fuller to beget callus; which if too finall, known by touch and weakness to motion; attract aliment with foments, frictions, pications, &c. if too big, known by pain, and unaptness to motion, leffen it by a plate of lead, resolving fotus's, friction with falt, streight ligature, thin dyet, &c.

If there be a wound, the bone cover'd, no

frag.

fragments, reduce the bones, cure the wound as before, by suture or ligature; binding slacker then if there was no wound; splints are less useful, lay them not upon the wound. If the bone be cover'd but some fragment to come out, known by much sanies, lips gaping, soft slesh, pricking,; if it come at the proper place, draw it out with forceps, or leave it to Nature. If the bone be bare, sowe the wound to cover it, &c. if without the wound reduce it, or sawe off.

Of the Fracture of the Cranium and Nose

before.

The Ears are rather bruised, than broke; use glutiners, with easie or no ligature; lie

not on the fide.

The Mandible is reduc'd, by putting your fingers into the mouth, setting the teeth even; binding them with waxt thred, or silver wire; begin your ligature from the nuch, and bring it npon the mandible, and behind the ears to the forehead; there sowe it, it knits in 20 days, dyet liquid.

The Clavicle is reduc'd, the bones well plac'd, by putting your knee between the shoulder, blade, strongly drawing them back, then reduce them with your hand; they are

well in 24 hours.

The Scapula's rarely broke, unless in its ends, inward or outward; this is easily reduc'd,

duc'd, that difficultly; hath nothing peculiar,

and heals in 24 days.

The Breaft-bone is dangerous, pain, cough, difficult breathing, spitting blood follow; 'tis reduc'd as the Clavicle, pressing the ribs with your hand; applying medicines, rowl over all the breast, and sowe it upon the shoulders.

The true ribs may be broken in any part, the false only where they are knit to the spine; sometime they are only clest or depress'd, known by inequality and noise; if inward, signs of a Pleurisie, they consolidate in 20 days. The inward cur'd by good ligature, and things against instammation: unless in a Fever, sull dyet is good, because it distends them. Shun Clamor, Motion, Venus, &c. whatever may cause cough, or sneezing. If the Fracture be outward, press in with your hand, after bind s. a.

The Vertebræ's are rarely broke, but bruifed, Palfie, suppression of Urine, involuntary egestion, sometime death succeeds, chiesly if the Cervix be broken. Appease pain and tumor, then roborate, cut the slesh, and pull

out the bone.

If Os Coccyx be broke, put the fore-finger of your left hand into anus, and reduce it with the other hand, apply fit plasters, &c. other Fractures in the joints may be cur'd, by observing what hath been said.

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Of Luxations, and first in general.

A Luxation is, when a bone is out of its proper place; 'tis either complete, when 'tis altogether out, call'd exarthroma, luxatio, or imperfect, when only difforted; call'd pararthroma, subluxatio, which happens never in the shoulder, or thigh. It may be inward, outward; before, behind; upward, downward; fimple, compound. There is another kind of Luxation, when bones gape of themselves, as scapula from bumerus, radius from cubitus, &c. Caufes are strokes, falls, mucilaginous humors, as in Ischion, known by tumor in one part, cavity in the other; motion hurt, pain, shortness. Gaping is known by tumor of the head of the bones. The Article only lax'd, is quickly in and our. Luxation difficult, where strong ligaments, ample cavity, but more difficult to reduce; easier in soft, lean bodies, so the relapse oftner. Difficult to cure, if attended with bad fymptoms, for no reducing till they be vanquish'd; so if old: worst, if the mouth of the cavities be broke.

The Cure confifts in reduction and confervation of the Article, removing of Accidents, as in Fractures.

The fam is difficultly luxated, because of

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the strength of the muscles, and firm articulation, to which 'tis connected to the upper part, it happens only to the fore-part, not the hinder, because the bone hinders; not of the right fide for the left, not of the left for the right head; caus'd from the wide opening the mouth, or weakness of the muscles; speech is man'd, chewlng abolish'd, spittle flows, mouth difforted; if only on one fide, the teeth answer not their fellows, but the dog teeth are under the cutters; but if both jaws be luxated, the lower are longer than the upper, though they all answer one another. This is dangerons, unless it be quickly repos'd, because of fevers, distention of muscles; more when both than one, from inflammations, confent of the brain, vomiting of choler and flux. Reduce, by putting fingers, thumbs, wrapt about with linnen on the teeth, press them hard, and lift up his chin with the rest of your hand. If both out, go the same way, but let them be equally put back. Being repos'd, use astringents and fit ligature, divide the band at the chin, and about the ears, making one or more circumvolutions upon the Vertex.

The Vertebræ may be luxated, or subluxated, forward, backward, and side-ways; if next the head, the chin falls to the breast; so that he can neither speak, nor drink; 'tis

deadly.

deadly. If above the Septum inwards, difficult breath, distention of Nerves, vomit, shaking of the hands, death follows; under the Septum, the Thigh's refolv'd, Urine Supprest, fometime unvoluntary excretion. First extend, then reduce, by fetting the Patient low, and one weighing heavy upon his shoulders, the Artist putting up, and moving the head too and fro till set: Mr. Hales, a famous Artist in Northamptonshire, cur'd one pelow the neck inwards, by taking the Patients hands about his neck, as if to be whipt, and giving a fudden jerk with his posteriors. If outwards, lay them on a Table, the face downward, bind them under the arm-pits and flanks with strong leather thongs, and make extention, and force in the bunch with your hand; or lay a Form upon it, and fit or tread upon, taking heed of the Process.

The Clavicle is never wholly luxated, not forward, for its firm adhesion to os pectoris, nor in the other head where it cleaves to the Humerus, doth it go out much, because hindred by the cartilage, biceps and deltois muscles. If the head of Humerus be luxated, 'tis sharper, the bone stands out, and with a hollow; 'tis reduc'd with the hands, and bound as in Fractures. Thus is the highest Humerus reduc'd, by forcing the Bone that is

out downward.

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The head of Humerus is inserted into the superficial sinus of Scapula, and involved by a lax ligament, and cannot be luxated on the outward, upward, inward, backward part; sor divers desences, but only downward and forward, wanting desence there, rarely forward, for the relistance of muscul. deltois: so that Hippocrates never saw it, Galen but five times, yet the bumerus and semur may be persectly luxated from violent causes, known by common signs, and comparing. Divine Hippocrates lays down several ways of reposing.

1. New and tender, with hands only put

under the arm-pits.

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2. By the Servants shoulder put under the arm- pit, drawing his arm toward the belly.

3. By a Ball under the arm, thrust hard with the foot, drawing the arm downward.

4. By a Ball put under the arm pit, then a round Staff transvefly put under, two Servants lifting it up, bringing down the arm.

5. By aladder, but the Staff may suffice; being restord, keep a Ball under with sit li-

gagure and medicines, as in Fractures.

The Elbow sometime in part, sometime wholly luxated, before, behind; inward, outward; signs common: if not quickly repos'd, bad symptoms follow from great nerves there. Extension must be oblique

with

with hands, or bridle reins; then as in others.

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Carpus, metacarpus, digiti, may be luxated every way, forward and backward; carpus out forward, the fingers cannot be bent, because of the compression of tendons; if inward, the hand is distorted in the opposite part. These are easily repos'd, by putting the hand upon a Table, upward, if out inward; downward, if backward; then extension made, repose them, with medicines and bands as before.

The Thigh, according to some, is luxated only three manner of ways, oft in the inward part, because the top of the sinus is less deep, and, as the bumerus, is perfectly luxated; sometime in the outward, but by great force; seldom in the forward and backward, bccause the cotyle is very deep. If the Thigh be fallen into the inward part, one shank is longer than the other, a cavity appears from the outward part in the buttock; knee, foot, whole shank, bend outwardly; because the bending muscles are bound, yea, the head of the thigh nigh the perineum, is perceived to bunch; but if it be flipt in the outward part, the shank shorter, bunch outward, but within hollow, the shank cannot be mov'd, the heel touches not the ground. If in the forepart, the leg is extended, but the inguen cannot bend,

bend, Urine suppress'd. If in the back-part, contrà. the leg bends not, is shorter, the heel touches not the ground, buttock, bunch, cavity, in inguine. 'Tis difficultly repos'd, and unless quick, the sinus sills and hardens. If inward, they turn their feet about in going like Cows, and lean upon the sound foot; if upon the hurt they fall, unless they use a Staff on the whole side: But if outward, they walk better, and use the affected leg. To reduce, extend with hand or band; the body lying upward or downward, use two bridle reins, one from the inguen, the other from the knee, the rest s. a.

The Knee may be luxated any way, except forward, for the opposite Patella; easily reduc'd. The Patella is by the hand reduc'd, by the Patients fixing his foot upon the

ground.

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The Leg is reduc'd easily by small extenfion, but difficultly confirm'd, because of many Bones compounding the Article. Strive not to go, before perfectly confirm'd. If or calcis be disjoin'd from astragalus, heavy symptoms succeed, from the greatness of nerves and tendons; 'tis easily repos'd, but must be long bound, because it sustains the whole body; in the sole of the foot and toes, as in the hand.

Thus have I laid down the Cure of Tu-

mors, Wounds, &c. with their Causes, Signs, Diagnostic and Prognostic, from the pure Fountain, or indeed main Ocean of Hippocrates and Galen, those greatest Luminaries of Physick; and from them thou hast, (as it were by a concatenation, or series of time,) the doctrine of the most learned and orthodox Writers to our times, Grecians, Latines, and Arabians; not being ignorant, that fince Paracelfus, there have been too many that have too lightly esteemed, or altogether neglected the Ancients; but Inch I pity, with a learned man as feeding upon airy fancies, loathing the folid, wholfom viands of ancient wifdom, and dig to themselves Cisterns that will hold no water; like women and children, love new Wine, because pleasant to the taste; when wife men choose old, because wholfomer. They flight the dictates of the Ancients, because they misconsture, or misunderfrand them, not confidering that we are but children in Understanding, to those Fathers of knowledge; Dwarfs and Pigmjes, to those Gyants in wisdom, and without standing, as it were, upon their shoulders, shall not see so far as they. I am not against Emulation in any man, yet let it be with their supportation, for indeed without that it cannot; and let him take heed, lest he lose the substance, in catching at the shadow.

Of the

VENERAL DISEASE.

His Disease hath obtain'd as many Names almost as Nations, with us 'tis commonly call'd the French Pox; but to give no Affront to any Contryeman, I have call'd it Lues Venerea, or the Venereal Difease: And well I may, for undoubtedly its first rife was from impure Venery; and so is of greater Antiquity than Columbus's return from the Indies, 1453. the fiege of Naptes, 1485, or the oldett computation can be found; even as old as Whoring, which hath been almost from the first Age of the World. Upon which there is extant an elegant and lepid enigmatical Hexasticon of Serranus a Physician of Lyons, concerning the doubtful Origine of this Disease.

India me novit; jucunda Neapolis ornat; Bætica concelebrat; Gallia, mundus alit. Indi, Itali, Hispani, Galli, vosque orbis alumni Deprecor ergo, mihi dicite qua Patria?

But not ludere cum sanctis, since this Disease, for the most part, breaks out in Ulcers, &c. in

the obscene parts anus, and penis, with filthy scabs and itching; one may doubt, not without reason, whether this was not that old Plaga Legis, threatned to the disobeyers of the Law. God will smite thee with the Ulcer of Egypt, and that part by which the dungs are ejected, with the scab also and itch, &c. a little after he adds the worst and perpetual infirmity, for this is the scourge of Whoring, and is perpetuated in some with Pains, and worst of Ulcers. And why may not Martial mean this Disease, in that Epigram?

Cum dixi ficus, rides, quafi barbara verba,

Et dici ficos Caciliane jubes :

Dicemus ficus quas scimus in arbore nasci;

Dicemus ficus Caciliane tuis.

Fracastorius calls it, in derission, Siphylis, para to sinein phula, & perapposite, says Laurentius, Notatione vocabuli a scropha & amore desumpta quam vulgus publica proistibula boc nomine appellet; others Pudendagra, in imitation of Pliny's Mentagra.

But to pass by what may not be of so much use to the Artist, I shall betake my self to its Signs Diagnostic, Prognostic, and Cure, with its Symptoms, Precedent, Concomitant, and

Subsequent.

Tis known by Gonorrhea, i. e. flowing of a hot, virulent humor, not feed, from the reins

reins, or an inflamed Ulcer of the prostrate glandules, whence proceed varicolor'd Sanies, white, green, bloody, &c. which supprest, or ill cur'd, turns to the Lues. Bubo's which if well suppurated and cur'd, may prevent a farther danger; but if they go inward, promote it. Then follow in the face, pustules, Oc. pain, not in the junctures, but middle of the limbs, which afflict more by night than day; humors having then not time to fix, but in motion and diffipation: Ulcers of the privy parts, mouth, nose, &c. pains in the head, nodes in the bones, and tumors like Atheroma, Ulcers in Vvula, and many more fymptoms, which appear not always: as a small Fever, Warts in the obscene parts, diurnal pains of the thoulders, legs, membranes, from tharp homors, which are follow'd by tophi, carious bones, &c. at last death, from an hectic Fever, or Cachexy, though Dr. Whi taker fays it kills none.

Easier cur'd in the Beginning and Spring, than Winter; or when inveterate, and in a cacochymic body, and hath corrupted the

folid parts.

Let the Cure be heating and drying, so that fasting is very requisite, as much as the nature of your Patient will bear; for impura corpora quantum nutris tantum ledis; shun gross, melancholy meats: Fish, Milk-meats; but Par-N 2 tridg,

tridg, Feafants, Chickens, Mutton roafted; Almonds, and Raifins; Filbirds, and other dryed Fruit. Drink sparing, and not strong. If accustomed to wine, or strong drink, put a little water, or small beer to it. Too much fleep hurtful, especially at noon, unless he flept not by night. Strong exercise good, but Venus, Sadness, Fear, wholly forbidden. Belly to be kept loose; yet you must have regard to the strength and nature of the Patient, time of the Disease, &c. for one fort of dyet is for phlegmatick, another for melancholick persons; thin in the beginning. But first of all you are to prepare the body by general remedies, as Phlebotomy, Purging, &c. if Bubo's hinder not, cupping with scarification, leeches to the hamorrhoids. Then proceed to administer antivenereal Antidotes, which may expung the Poyfon, by Sweat, Spittle, &c. the chief whereof is Guajacum, which prudently order'd, agrees with all ages, times, persons, Sassafras, Salsaprilla, China, some use the two latt to weak, hot bodies, the other to ftrong and cold. Thus prepar'd:

R. Ligni Saneti, (Guajac. so call'd, for its miraculous effects, it feems, in Greek Hagioxylon.) 3 iv. cortic. ejusd. 3 ii. insuse them all night, or 24 hours, in Rain, River, or Spring water, ib xvi. close cover'd over hot ccals,

boil

boil them gently to the absumption of half; adding at the latter end, a few Raisins of the Sun, if you will, and Liquirice, red Sanders raspt, and Cinamon, to dulcorate, colour, and aromatize. Let the Patient take four, fix, or eight ounces of this in the morning falling, and at four or five of the clock in the afternoon, sweating either in a Hot-house, or in Bed, or Chair. The ingredients for the first decoction, are to be boil'd again, for his ordinary drink, to which you may add fresh wood 3 ii. infuse them in thaii. of water, all night, and boil them to the absumption of the 4th part : fo according to the nature of your Patient, you are to order your decoction; or you may add to the first Salfa, 3 ii, or iv. Saffafras, and China, an. 3 ii. some add White-wine, third or fourth part to the water; some purgers, as senna, agaric. bermodact. Falap. mechoac. polypod. epithym. turpeth. &c. others add lig. bux. eben. juniper, &c. and fuch farragines simplicium, as Mr. Wiseman from Sir Theodore de Mayern, which are wholly superfluous; some put Guajac. &c. in a bag, with purgers to new Ale, and fo drink one point, or half, or 3 iv. every morning, and five in the afternoon.

Now for those that lead sedentary lives, and are full of obstructions, some give this Electuary, after Generals premis'd.

R. Conf.

R. Conf. Lujulæ, Berber. an 3 iii. coral. rub. præpar. 3 ii. ocul. cancror. sal. chalib. tartar. vitriolat. an. 3 is. succini 3 ii. cum s. q. syr. coral. F. Elect. Dose, quantity of a nutrineg fasting every morning, and at four or five in the afternoon, exercising after it; purging every three or four days with this Potion. R. Vin. alb. 3 iii. syr. rosar. solut. 3 is. ad 3 ii. lac. sulpb. 3 ii. and sweating once or twice a week.

Those that are afraid to lose the palate, or bridge of the nose, they keep sweating in the Low-Countries, in Bed, five days or a week, drinking or eating nothing but hot posset-

drink, now and then a draught.

Such persons as are effeminate, and of weak constitutions, may take a spoonful of this Balsam in every draught of Beer or Ale

he drinks, for a month together.

R. Sarfa. 3 is. chine. 3 i. spilt and cut, and bruised into 3 viii. of spirit of Wine, put in a Glass close stopt with cork and bladder, so long till the spirit be of a golden color, then strein it, and add to the liquor Gum Guajac. Pulver. 3 i. natural Balsam 3 i. stop close and shake the Glass once or twice a day, till the Gum be dissolved, purge every 3d day.

If the Disease be new, some R. Vin. alb. 3 iii. theriac. Audromach. 3 ii. balsam. sulph. gr. vii. F. potio. fasting three hours after. Some

use the Balsam alone: For extreme nocturnal pains, and pushings, or swellings, some give ten grains of this mass every night going to Bed, for 40. nights, compos'd to a moderate sweat, drinking nothing all the while but aq. font. 'tis this: R. Gum. Guajac. 3 ii. Antim. Diaphoret. Ol. Sulph. Diacryd. Cran. Human. Caleinat. an, 3i. Opii. Thebaic. 3s. Croc. Angelic. 9 i. Succi. Chamomel. q. s. F. mass.

f. a.

If all this prevail not, you must come to the Hydrargyrial Cure, either inwardly or outwardly; inwardly, either crude or prepar'd, as they callit: Crude, 'tis given with Extract. Rudii. Pil. ex duob. or coch. min. adding 3 i. of mercury, extinct with terebinth, fuc. limon, salvie, saliva bominis jejun. to 3 i. of the Pills, making them up with col. amygdal. dulc. some add gum. guajae. 3 i. dose to 3 i. to be continued, or intermitted, till the Cure be perfect. These they call Pill. Barbaroffe or Cerulea: The dyet of Guajac, Salfa, China, Saffafras, as before. The prepar'd, is mero dulcis precipitat, turbith, mineral. &c. adding 10, 12, 15, 20 grains of the Pouders, to 34. of the purging Pills as before, dose the same. But outwardly, your Ung. Neapolitanum is best, to peocure salivation; which to do, universal premis'd as before: You must keep your Patient in a hot Room, close by the fire, N. 4 and.

and anoint the foles of his feet, legs, hams, going no higher, then the palms of their hands, wrists, and bending of the elbow; do this once a day, till salivation be rais'd; wrapping him in hot linnen, put him to Bed, there let him sweat; in some a flux of the belly, not at mouth succeeds; then tumors resolve, ulcers dry up, and pains abate: to the mouth you may use gargarisms of bord. f.l. plantag. equiset. violar. cynogloss &c. with alum. syr. diamor. mel rosar. &c. if the flux of belly be too great, give the decost. guajac. with whitewine; or remedies against fluxes, if of the mouth, Clysters and Purgers.

Now for the Symptoms, and I. Gonorrhea, 'tis ur'd by Phlebotomy first, è malleolo, cooling dyet, and altering, emulsions, apo-

zems, &c. in principio, &c.

R. Medul. cassia, elect. lenit. an. 3 \(\text{S}\). dissolved in in aq. bord. emulsion, or whey, or taken alone: after you may add rheum, senna, with terebinth, and crem. tartar, towards the state or declination, and not in the beginning, as Bunworth and others do; for by reason of the grand quantity of fixt salt it contains, as the Chymits speak, it renders the Urine more hot and sharp: as for chrystal mineral, it may be given in a virulent one in the beginning in aq. chicory, in the declination in aq. plantag. then if it be virulent, R. salsa, china, an. 3is.

Salvie. M. i. Senne 3 i. Sem. coriand. preparat. 3 iii. boil them in vin. alb. & aq. font. an. th iii. ad dimidii absumptionem; while 'tis hot, add rhei 3 ii. fliced, and let it infuse all night with the rest; in the morning strainit, and add to the liquor. Syr. de cichor. cum rhabarb. 3 iv. dof. cochlear. xii. fasting, as long as it lasts. Then R. Elect. lenit. 3 iii. medul. cassia. in aq. rofar. extract. terebinth. venet. in aq. plantag. parum lot. (for the more 'tis wash'd, the less it deterges, so not fit here, as in a fresh one) an. Ziß. rhei. pul. 3 ii. misce, dos. quantity of a walnut falting, and as much at four a clock after noon. Or R. Guajac, 3 iv. senna 3 ii. sem. anis. liquirit. an. 3 i. lig. nephritic. 33. boil them in ag. font. ad dimidii absumpt. then add agaric. 3 iii. let them stand all night, in the morning strain it, and add to the strain'd liquor fyr. rofar. folut. 3 iv. dof. 3 v. fasting; then R. ag. plantag. vin. alb. an. 3 iii. terebintb. venet, in aq. rof. lot. 3\B vitel ovi. for one dose, mix the terebinth and vitel. in a mortar first ther add the liquor. Or R. Infus. croc. metall. 3i. oxymel. simp. 3 ii. fasting, cum regimine : then you may give extract. rudii. 3 i. mer. dulc. often sublimated, call'd calomelos, xii, xy, or xx gr. F Pil. No iii. circiter, for one dofe: then he may take this, R. rad. chine, farfe, fol. senna, rad. Nympheæ, an. 3 i. uvæ passæ enucleat. Ziv. sem. carui, cinnam. an. 3 iit. boil

boil them f.a. in a Pipkin, till half be wasted, strain and dulcorate with common treatle, z vi. dos. z iv. fasting, for several days; going to Bed, take every night five large Pills of terebinth. cypr.

You may all this while, if need be, inject into the Yard decost. tormentil. virga aurea, pilosel. &c. dissolving 3 i. of sacchar. saturn. or in inveterate Ulcers first, collyrium Lanfranci, much approved by many, 'tis thus

made:

R. Vin. alb. to i. aq. plantag. rofar. an 3 iv. auripigment. 3 ii. virid. aris 3 i. aloes, myrrhe, an. 3 ii. terantur subtilissime, & F. collyrium. If it be too sharp, you may add trochis. alb.

Some, when all fails, give from five grains to ten, of green precipitate inwardly. Renodeus, a famous Parisian Physician, gives you a sovereign water for a Gonorrhea, which duscifies the sharp, sordid humors, either in the reins, or other passages, urinal, or seminal; thus made:

R. Fol. acanth. lapath. hortenf. concis. summitat. altheæ. an. M. ii. flor. nenuph. M. iii sem. lin. senel. an 3is. sem. 4 frig. maj. an 3 i. macerentur per diem in lacte asin. aut vaccin. postea distillentur in Balneo. You may take this alone, or dissolve 3 i. or ii. of trochis. Gordon, de spodio. or alkekeng. in 3 iii. or iv. of this water. You will find likewise that your syr. de althea, co-

ral. mucilag. myrtil. de 5 radic. raphan. de symphito, &c. will be of good use toward the declension; not in the beginning, because sugar is of a hot, sharp, choleric nature.

Quercetan's water is this: R. Rad. Irid. florent. fol. diptam. cret, menth. fice. an. 3 i. sem. agni cast. rut. lacinc. an 3 vi. terebinth. venet. 3 iv. vin. alb. 3 xx. Bruise what is to be buised, put all iuto an Alembic, distil in M. B. dos. cochlear. ii. fasting.

In an inveterate Gonorrhæa, Palmarius, a Parisian Physician, and Mercatus, give iti. or iv. 3. of this following Lixivium fasting.

R. Cinerum filiquar. fabar. an 3 i. aq. parietar. tepent. the i. macerate them for four hours, then strain or filtre it, to which add syr. although iv. he says that you may give it in a new one, with aq plantan. for aq parietar, & syr. violar. aut limon. instead of alth. to which you may add a little aq. ros. If this avail not, he says you may use these following Pills, from the same.

R. Aloes, rosat, creta, succin, rad, gentian, aristoloch rotund, rad, dictam, myrrh, an. 3 i. mishridat. 3 is. terebinth, venet. 3 i. cum syr. de
alth. q. s. F. Mass. dos. 3 s. every other day
fasting; which, they say, will vanquish the
most stubborn Gonorrhaa, taking heed you be
not imposed upon by an Uleer of the bladder,
then you must advise with the learned Physician.

For other Symptoms, as Bubo's, Caruneles, Nodes, &c. thou hast enough before, if thou

art ingenious.

Now if a Child be offer'd thee to cure, infected with the venereal difease, thou art to confider whether it fuck, or not; if it do, the Nurse is to be concerned, who must be free her self. If the Child have any Ulcers, or Pusules in the mouth, see to cure them, first with decoctions, and other medicines, as thou hast light enough. Then let the Nurse be dyeted, as if she were infected, only the must eat boil'd meat, to afford milk for the Child, which else might be dryed up by the dyet; premitting universals, making the Child some pap of the decoction of Guajac. Salfa. and china, &c. with Sugar, or Syrup of caryophil, &c. or boil lig. guajac. china, salfa, &c. with Chickens, in ag. fluvial. aut font. with fol. borag. bugloff. chicor. endiv. &c. till half be wasted, then distill the rest, and give the Child thereof with fugar. This way may be very good for People of full age, (with Veal, if need be) that have a lent, hectic Fever, or give it ag. theriae. or cordial. frig S xon, with some lugar, as before.

If the Child suck not, give it of the common decoction, first opening a vein, purging it with a little senna, and syr. de cicher. cum rheo, or insuse senna and rheum, in some

white-

white-wine Posset-drink; or fyr. rofar. folut. cum senna; dose according to your Patients nature: or give these, with the decoction afterwards, or infuse some purging simples therein.

Thus have I faithfully laid down the genuine way of curing this protean disease, which, (as the learned Fracastorious well observes) is of very antique date, and hath its rifing and fetting, appears and disappears for a long time; whereupon after such intermission it hath, at its first coming, been accounted new. By which way, if thou art ingenious, thou may'ft vanquish it in any of its apparitions; and that Galenically, which you will find the fafest: for I do not account fluxing with 3 i. gr. xxv. of turbith, mineral.merc. dul.præcipitat, Oc. given for several mornings, till flux be rais'd, to be a Chymical Cure, as some imagine; and therefore abstain from all manner of preparations of Mercury; whereas Chymistry, as they call it, (which is nothing but a certain manner of preparing Medicines) was invented and used, long before him they call the Author, Paracelfus, by Dogmatical, Galenical Physicians, as Lullius, Villanovanus, and others, as the learned Primrofe shews in his Vulgar Errors. Nay, Fernelius, the Prince of Modern Galenists, was a great Proficient, in this Art; fo was Mathiolus, Eraftus, Crato, PhyPhysician to three Emperors, all great Galenists. Nay, Riolan, when he had (by the Command of the Colledge of Physicians at Paris, who are the strictest observers of Hippocrates and Galen in the World) overthrown the Paracelsian Machins, adds, that that School (which contain'd the most excellent Physicians of Europe,) lest every one free to use Chymical Medicines, provided the ancient method of Curing, according to the Precepts of Hippocrates and Galen, remain inviolable: and in their Pharmacopæa 1638. set down a preparation of croc. metall. and mere. dulc.

Now as for crude Mercury, many Galenists have been afraid to use it; but the several Testimonies of great Physicians, evince that it may be given safe, and crude the best; may, in some Cases, there is no Cure to be perform'd without it, chiefly in Unction.

Dioscorides says, it hurts only by weight.

Avicen, Prince of the Arabian Physicians, fays it hurts not, because it evacuates it self

by the belly.

Rorarius, says he knew a German in a Goldsmiths house, who after being drunk wak'd, and being dry, in the dark, took a 3 th. Pot of quick-silver, thinking it water, drank it off, and went to Bed; rising in the morning, and feeling his sheets moist, found 'twas quick-silver; the same assims that he

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knew divers Women take it, to procure easie delivery, and bring forth the secundine, without danger. Moreover, he affirms, as others, that it kills only by its weight; and that he hath not only heard, but seen it given fafely by Women and Physicians, to Children half dead with the Worms, and Women in dissipult labour, &c.

Braffavolus, a famous Physician in examin. fimplic. says he hath given 3i. to Children;

if to Children, then Men, &c.

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Amatus Lusitanus, calls those ignorant in Physick, that dispraise it, for reasons with Disoscorides, and that it was prescrib'd by the Spanish Physicians, (and they are very cautious) with very good success, and without any ill symptom, to Boys infected with the Worms, he adds bewitcht; and tells a Story of a Boy of 10 years of age, that drank above this of Quick-silver, instead of Wine, who perceived no ill symptom but weight, and by Clysters voided it, without any harm.

Mathiolus also, a famous Physician, is of the same opinion, and confirms all, and tells you Episi. ad Laur. It it be extinct, it sticks to the stomach and intestines, and causes cruel symptoms: And indeed by the various preparations, its nature is but hid, not taken away; neither is any preparation so safe as crude: for if crude added to sublimate, they'll confess,

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takes away its venom, and makes it harmless, much more is it safe in it self: For, Nil dat quod non babet; and if it imparts sweetness and pleasantness to a most dangerous poyson, it must, without doubt, contain such in it self; Nam proper quod unumquodque est tale, as the Philosophers say, illud est magis tale. So that 'tis only to be observ'd, that it be not given in too great weight, or that there be no bad humors in the body; and that it is fitter for phlegmatic, than choleric, or melancholic constitutions: nor is it therefore to be rejected, for so you may reject any Medicine.

Laurentius, a most famous Physician, and Chancellor of the famous University of Montpelier, in the Cure of this disease, says, we must of necessity have recourse to mercurial remedies, when the others cannot pre-

vail.

Rondeletius, another famous Physician, and Chancellor of the same University, in his Cure of this Evil, speaks Wonders of Mereury, and deciphers the properties it hath against it, in what manner soever administred.

I shall conclude with the testimony of Hartman, a most expert Chymist, who taught several preparations of Mercury; yet, treating of the Cure of the Worms, the most excellent, says he, is Mercury crude, taken by it

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felf, from 3 i. to some ounces; or first mortified in fuce, limon. but in a lesser dose, for then

it tarries longer in the body.

And here I must not omit to take notice of your Doctors of the Wost in London, that pretend to Cure all People eafily, though it be most inveterate, and in the space of 2, 3, or 4 weeks, or fuch a time, without observing any order of dyet, &c. to that their nearest Relation shall not take notice. But I would not have the honest Artist to make any such promise, and all others to beware of such Impostors; for though the Cure hath been, and is too much neglected by Physicians, and so vulgarly is believ'd to belong to the Chyrurgion, yet it is their work, and requires a great deal of industry, and none but the ingenious and skilful Chyrurgions are able to perform it, as the learned Primrose hath observ'd in his Vulgar Errors; for it must be a light disease that can be cur'd, after fuch a flight manner, as they pretend.

Lastly, I cannot but take notice of the difingenious dealing of the Chymists with the Galenists, about the Cure of this disease, and not only in this, but all other; one for instance may serve for all, for Ex pede Hercules, & similes babent labra lastucas, and that is one Dr. Manwayring, that calls his Book, The History, &c. of the Venereal Lues, &c. wherein he

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tells you, he gives you the Cure from the German, Italian, Spanish, French Galenists, and there names them: But I must tell you, they are almost all the very meanest he could pick out; omitting the Cure from the most famous: as from the Italians, the two most famous that ever wrote of it of that Countrey, viz. Fallopius and Cappivaccius, whom our fomaus Dr. Read layes down, to serve for patterns of all that ever wrote; of Mercurialis, Prince of the Italian Physicians, not a word. Then for the Germans, he lays down the way of Cure used by two or three obscure Physicians, but not one word from the famous Senertus, that Galenus Germanicus, nor any other of Note. For the Spaniards indeed, he gives us only one of Note, and that is the great Mercatus; a better method than whose, ro cure this disease, I doubt he, nor any other Chymist, hath not any; nor for any other disease than this learned man hath left in his Voluminous Works.

Then for the French, he begins with Rondeletius, whose method is none of the best, only he approves Mercury, as before. For Quercetan, enough of him before; neither do I take him for a Galenist. But not one word from the great Fernelius, the Galenus Gallieus, who hath wrote a most excellent Treatise of this disease, and I forbid all the Chymists ie

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mifts to thew fuch another; nor a word of his Scholar Palmarius, who hath done a great deal better, and more learnedly than Quorcetan. One point of his cander and ingenuity towards Galenists, I must not omit, wherein he shews how little he is conversant, or his ignorance in the Galenical Pharmacopæa's, whom he pretends to correct; for in Transcribing a Recipe from one Benedictus, for the Cure of this difease, when he comes at the word Geneliabin; though he hath falfly Tranfcrib'd it, or by fault in Printing, he calls it Geneneliabin; he fays, which word I know not what to make of: but if he had but read two of their modern famous Pharmacopaan Doctors, viz. Banderon, and Renodeus; he might have feen what eo have made of it, namely, that which the Greeks call'd Rhodomel. and the Latines mel. rofat. the Arabs, call'd by that name, only Renou, will have it Gelenihabin, with the learned Monks in their Censuse upon Masues's Antidotary, who tells you that the word is in Avicen; 5th Canon, and Haly, fillii Abbas, cap. de condi-tis & alibi, and says, 'tls call'd muraba also, and challengebinum: and makes a long Srory about it, which here to recite, would not be fit. And in several places of this Book, the Doctor derides the manner of writing of those ancient Physicians, when they are often falfly

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falfly transcrib'd, or misprinted. But to conclude his Book, when he hath given you, as he would make you believe, the best way, the Galenists, (whose repute is such, he says, that most Physicians, their Successors, do follow, as their Guides, in Curing: though (as I told you) he is mightily out) have to cure this difease: Then he inveighs against the incongruous Compositions, and Pedantic Recipe's, as he calls them, upon the Files; and tells you, the cause of all this, is the Physicians very imprudently, and perniciously casting off their proper charge and main duty in preparation and improvement of medicines by their own hands, and diligent inspection over all that appertains to that work; the neglect whereof hath made them incapable, to fee and correct the gross Errors of Traditional Book Medicines; and then gives you an example of one Bolnest, that hath made an improvement with fuccess, by being his own Opetator; but because Bolnest hath been already learnedly handled by Dr. Twisden, I shall wave him, and come to our Doctor, and must tell him, he is much mistaken here too; for there are Galenists that are not so negligent, or fo much altogether governed by Tradition, but that they have made an improvement and refinement of both Galenical and Chymical Pharmacopæ as, witness Zwelfer, Pharmacopæs AntAntwerpiensis, le Febure, which he had from two famous Parifian Doctors : our London, by the Learned Sir George Ent, and last of all Monsieur Aquin's, set forth by Charas, but by his command and approbation; fo that if you, or your Brethren, have any better, you are very much too blame, and very bad Commonwealths men, if you do not impart them, and bless the world with them, as they have done, but keep them fecret; or at least make the world believe you are bleft with fecrets and better medicines, which none but the Adepti, or rather your Inepti, are worthy to partake of, or can attain to; whereas the Orthodox conscientious Galenist, imparts all to the world, knowing that bonum eft diffusivum; & quo communius ed melius; that it is the experience of the goodness of Medicines that hath made them common; and that Physician that well understands morbum, method, medendi, materiam medicam, & componendi rationem, I'll affure you shall need none of your Secrets. Tis related of Cappavaccius, a great Paduan Professor of Physic, who, when defired of the German Students, that he would communicate his Secrets to them, answered, Read my Practice, and you'll find my Secrets; in which Book there are no Secrets, or Arcana. Now all Secrets are fimple, or compound, and if any one shall find out the faculty of a simple medicine

dicine not yet known, fuch an increase to the Art is worthy praise, and may be call'd a Secret; as he that first found out the vomitive nature of Antimony, and the efficacy and composition of Gun-powder, and that first brought Jalap, &c. into use, had worthy Secrets, Now if their Secrets be such, they deserve to be estemed, neither are any other things to be admitted; fo for those Recipe's, which are compounded of the ordinary materia medica, as there are very many, they are not to be accounted Secrets, though a Physician keeps them to himself, and would not have them known; for every learned and skilful Physician, may invent and frame such to himself as occasion offers, and he pleases, ad infinitum. So that it hath been an unhappy custom, which some ignorant Physicians verbatim, to transcribe Medicines out of Books, and these to keep secret, lest if other learned Physicians should see them, they might make them laugh; hence comes it to pass, that many here in England are deceived, in getting Secrets from such, which had none; and if they be good, yet fuch, or the fame, may be invented out of the materia medica, diverfly compounded; as from letters put diverfly together, divers words are framed. The learned Primrose tells a Story of one, ehat had a description of a certain Purge, which, he faid,

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faid, a very learned Phyfician now dead, gave him, which when he faw, could not forbear laughing at the foolery of the composition; yet he would make it up for his Wife, but he perswaded him to give it to the Apothecary to make up, and to give only the third part, with which the was fufficiently purged: The like of fuch idle Recipe's, I could produce divers examples, too long here to recite; fo that thou feeft by this time, 'tis not the orthodox learned Galenist that imposes upon the world, but fuch as Thomfon, Marchemont Nedham, and too many fuch, as contradict Hippocrates and Galen, because they are not so well read in the true, found, and ancient peripatetic Philosophy, as to understand them; for ubi definit physicus, ibi incipit medicus, the better Philosopher, the better Physician; and 'tis from fuch ignorant persons, that as Dr. Manwayring fays, If an account could be taken of the dead, we find more have dyed by Medicine, than the Sword; but, as he fays, Populus vult decipi, they love the imposture, they will not be informed; so decipiatur, let ir go on, they are his own words. Now wholly to conclude, affure thy felf, That the best Galenists, are the best Chymists. But whether it be so proper for the Physician to make up his own Medicines, or no, is a question too long for this place. The

The Manner how to make Reports.

Porasmuch as upon divers occasions, the Artist may be called to deliver his opinion, either of the death of any Person, or of the weakness and depravation of any member, in the Function, or execution of its proper office and duty, to a Magistrate or Coroner's Inquest; I have taken out of Ambrosius Pareus, and others, these following Rules.

Let the Artist be careful in searching Wounds brought to him, and let the Patient be placed in the same posture he was in when he received the hurt; otherwise a Wound may seem by the Probe to be small, when indeed it is mortal. If he be doubtful, let him suspend his judgment from the first day to the ninth, by which time the symptoms will manifest the condition of the Wound.

The general Signs whereby we judge of diseases, are diagnostic, prognostic, or amnestick, and they are taken, I. From the nature and essence of a disease. 2. From the three

forts of Symptoms; which are,

1. Action hurt, and that may be either demolish'd, diminish'd, or depraved. 2. From the Excrements, which offend either in sub-stance, quality, quantity, mannner or time.

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3. From the quality chang'd, of touch, finell, color, &c. which depend on the diseafes and symptoms.

4. From the cause.

5. From the disposition of the body.

6. From things helping and hurting.

7. From similitude and dissimilitude, where are to be compar'd evils universally raging, as Plague, &c. of all which thou hast

an account before.

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If a Nurse, through drowsiness, or negligence, lie upon her infant in Bed with her, and so stifle it to death; if the Infant were in good health before, were not forward nor crying; if his mouth and nostrils now dead, be moissined with a certain foam or froth; if his face be of a violet colour; if when the body is opened, the lungs be found swoln and pussed, and all the other intrals sound; it is a token that the Infant was stifled by some outward violence.

If the Body or dead Corps of a Man be found lying in the Field, or House alone, and it be questioned whether he were slain by lightning, or some other violent death, these signs following will shew the certainty there-of.

For every Body that is blasted, or stricken with lightning, doth cast forth an unwholsom or sulphurous smell, so that the Birds, or

Fowls

Fowls of the Air, nor Dogs will not touch it. much less feed on it; the part that was stricken oftentimes found, and without any wound; but if you fearch it, you shall find the bones to be bruised, or shivered in pieces.

But if the Lightning hath pierced the Body, making a wound, (according to the judgment of Pliny) the wounded part is far colder than the rest of the Body. For Lightning driveth the most thin aud fiery Air before it, and striketh it into the Body, by which force the heat that was in the part is foon difpers'd, and confum'd. Lightning doth always leave some sign of Fire, for no Lightning is without Fire.

Moreover, whereas all other living Creatures, when they are stricken with Lightning, fall on the contrary fide, only Man falleth on the affected fide, if he be not turned with violence toward the Coast or Region from

whence he came,

If a Man be ftricken with lightning while he is afleep, he will be found with eyes open; contrariwife, if he be stricken while awake,

(as Pliny writes.)

Also it may be inquired, whether any that is dead by a wound, receiv'd it a live or dead? Truly the wounds that are made on a living map, if he dye of them, after his death will

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appear red and bloody, with the fides or edges fwoln, or pale round about: contrariwife, those that are made in a dead man; for all the faculties and functions of life in the Body do cease, and fall together by death, so that thenceforth no spirits nor blood can be

fent, or flow unto the wounded place.

The like question may be when a man is found hang'd, whether he were hang'd dead or alive? If he were hang'd alive, the impression or print of the Rope will appear red, pale, or black, and the skin round about it will be contracted or wrinkled, by reason of the compression which the Cord hath made; also oftentimes the head of the Aspera Arteria is rent and torn, and the second spondile of the neck luxated, or moved out of its place; also the legs and arms will be pale, by reason of the violent and sudden suffocation of the spirits: moreover, there will be a foam about his mouth, and a foamy and filthy matter hanging out at his nostrils, being fent thither, both by reason that the lungs are suddenly heated and suffocated, as also by the convulfive concustion of the brain, like as it were in the Falling-sickness: contrariwise, if he be hanging dead, none of these signs appear.

Whosoever is found dead in the waters, his belly, that was thrown in alive, will be swol'n and puffed up, by reason of the water that is

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contain'd therein; certain clammy excrements come out at his mouth and nostrils, the ends of his fingers will be worn and excoriated, because he dyed striving and scraping in the bottom of the River, seeking somewhat whereon to take hold to save himself from drowning. If he be thrown into the waters, being dead before, these Signs appear not.

But as concerning the Bodies of those that are drown'd, those that swim on the upper part of the water, being swol'n or pussed up, are not so by reason of the water that is contain'd in the belly, but by means of a certain vapor, into which a great portion of the hunors of the body are converted, by the essicacy of the putrifying heat. Therefore this swelling appears not in all men which perish, or are cast into the waters, but in them which are corrupted with the silthiness, muddiness of the water, a long time after they were drown'd, and cast on shore.

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Many are suffocated by burning Charcoals in a close Room, and sometimes recovered, if taken in time, else quite smother'd. These you shall perceive their faces wan and pale, no pulse beating, all the extream parts cold, speech and motion cease, so that there is little hopes of recovery, only as thus, put your hand to the region of the heart, and if you find any heat and pulsation, then there is life remaining,

pricking

maining, else not; therefore if any person's found dead in a close Room, you shall inquire whether there were any Charcoals burnt there, or observe whether the walls be new white lim'd, and the cause of their deaths

will appear.

You shall know that a Person is poyson'd, when as he complains of a great heaviness of his whole Body, fo that he is weary of himfelf; when as some horrid and loathsom taste fweats out from the orifice of the stomach to the mouth and tongue, wholly different from that tafte that meat, howfoever corrupted, can fend up; when as the colour of the face changeth suddenly, sometimes to yellow, or any other colour, much differing from the common custom of man; when nauseousness, with frequent vomiting, troubleth the Patient, and that he is molested with so great unquietness, that all things may seem to be turn'd upfide down, when the Patient Iwoons often, and with cold sweats.

Those Poysons which are hot, cause a burning in the tongue, mouth, throat, stomach, guts, and all the inner parts, with unquietness, and perpetual sweats; but if they be accompanied with a corroding and putrifying quality, as Arsnick, Sublimate, Rosealger, or Rats-bane, Verdigrease, Orpiment, &c. they cause in the stomach and guts intolerable

pricking pain, rumblings in the belly, and continual and intolerable thirst, These are succeeded by vomitings, with sweats, sometimes hot, sometimes cold, with swoonings, whence sudden death ensues.

Poysons that kill by cold, induce a heavy sleep, or drowfines, from which you cannot easily rouse them; sometimes they so trouble the brain, that the Patients perform many undecent gestures, with their mouths and eyes, arms and legs, like such as are frantick; they are troubled with cold sweats, their faces are blackish or yellowish, always ghastly, all their body is benum'd, and they die in a short time, unless they be helped: Poysons of this kind, are Hemlock, Poppy, Night-shade, Henbane, Mandrake, &c.

Poyfons that are moist, induce a perpetual sleep, flux, resolution of all the nerves and joints, so that not so much as their eyes may be stedfast contained in their orbs, but will hang as ready to fall out; the extreme patts, as the hands, seet, nose, ears, putriste, then death is at hand; of this kind are the bitings of Serpents, the venenate and putrifying humi-

dity of the Air, &c.

Being to make report of a Child kill'd with the Mother, have a care that you make a discreet report, whether the child were perfect in all the parts and members thereof, that

the

the Judge may equally punish the Author

The way of making Reports, is this:

A. B. Chyrurgion of London, being called this 10th of August instant, to visit T.W. I found him in his Bed, wounded on his head on the left temple, piercing the hone with a fracture, and depression of the hone into the meninges and substance of the brain, by means whereof his pulse was weak, he was troubled with raving, convulsion, cold sweat, and his appetite was dejected, whereby may be gathered, that certain and speedy death is at hand.

In Witness whereof, I have hereunto fet my Hand.

This, if thou art ingenious, may be a pattern of all, only looking back to what hath been faid before, of the Signs, Causes, and Symptoms of Diseases.

Of Bleeding at the Nofe.

BEcause many places are stuff'd with a fort of Quarks that profess themselves Physicians, and take to themselves the Q.4. Title

Title of Doctors, who, when they come to a Patient, cannot discover their grief, unless it be apparent to their eyes, much less cure it; that I might save the lives of divers people, I shall set down some Rules for the Cure of

this lamentable grief.

The Blood that nourishes the brain, and flows from the nostrils, is wholly arterial, and most pure; 'tis caus'd either by I. Anastomasis, Opening of the vessels, from the weakness of the veffel, plenty and thinness of blood: Dierefis. 2. Separation, from a wound, contufion, ruption, rofion. 3. Diapedefis, transcolation, resudation, from the tunic being rarifi'd, and blood attenuated. The external cause is known by relation: plenty, and bad quality of blood, shew pletbora, or cacochymia. If critical, figns of coction appear, or a critical day, and the Patient is eas'd. If it flow too much, swooning, dropsie, &c. at last death may follow. For the Cure, let his dyet be thickning and cold, begetting good juice, and of easie concoction. If it be critical, 'tis not presently to be stop'd, especially in a plethora.

But the fymptomical bleeding at the Nose is to be stay'd, which is done, by pulling back the blood slowing to the nostrils; by repelling it from those and the neighboring parts, by shutting the open orifices of the veins, by check-

checking the preposterous motion of the blood, and by evacuating and correcting the sharp and thin humors, mingled with the blood causing the flux, and stopping their growth, and by strenthing the retentive faculty of the liver and the veins; to all which do prevail very much these Rules following.

The pulling back of the blood must be done as soon as can be, before the spirits be too much weakned, and this by opening a vein in the arm on the same side the blood slows, taking little at a time, and often; and you shall make a large orifice, if you find the Patient strong; and if you find the slux stay not with this, and the following remedies, open a vein again, then cut the foot vein.

After opening a vein, or before, let there be used friction, and binding of the extream parts, and large Cupping-glasses fastned upon the shoulder and hypochondrium of the same side, or both, if both nostrils bleed; Galen; with these, commands opening the pile-veins; Forrestus bids six Cupping-glasses to the feet, without scarification.

Some fasten Cupping-glasses to the two-headed muscle of the arm.

Crato, in his counsels, propounds the clinching close of the little finger of the hand, of the same side.

Swooning is one remedy, it draws the blood and spirits inward, and cools the whole body.

Zacutus Lusitanus reports, he cur'd a flux, when all remedies fail'd, by applying an actu-

al Cautery to the sole of each foot.

The aforesaid attractives not prevailing, we must come to things that repel, which may be applied to the forehead and temples, behind the neck, and upon the carotide arteries, as pul, thuraloes with bares-bair, & alb. ovi, dipping flax herds in alb. ov. then lay the pultis upon it, and so apply it, from one temple to the other along the forehead; or only bol. armen. alb. ovi. acet.

A fure Medicine is made of plaster and winegar two fingers thick; and if the first

flay it not, then apply another.

Amatus Lusitanus praises a Cap made of fuch aftringent things, and exycrate to be put upon the head, being first shaven; in great

extremity it may be try'd.

It will be good also to bathe the forehead, arteries, temples, &c. with cold water, or oxycrate with cloaths wet in, and removed as foon as they begin to heat, and then wetted and apply'd again: or a Bath made of juice of Plantan, Knot-grafs, Horse-tail, Shepherds purfe, and the like, with a little vinegar, to make it pierce the better. But the head must

not be fomented, nor astringents apply'd, till sufficient revulsions have been us'd; lest the blood too suddenly forc'd back, cause a greater flux, or else by suddenly staying, a convulsion, apoplexy, shortness of breath, &c.

Apply Vinegar alone to the forehead, &c. or a wet sponge in it, and put into the no-strils, about a porrenger sull at a time of water, with a good dash; and a little while after another, and so with intermission.

The casting cold water into the face, doth not only repel the blood, but doth retract it to the inner parts, by reason of the sear

which will be apt to arise thereat.

Alfo Oxycrate held in the mouth, and often chang'd, keeps blood from flowing into the throat.

Vinegar also fyring'd into the ear of the

bleeding side, is good.

Besides these things that repel, we must

the nostrile pul: thuraloes, &c.

Also some much commend the blowing of powders into the Nose, as the ashes of egg-shells, of paper, &c. but observe whilst this is in doing, the Patient must hold his mouthfuil of cold water, to stay the medicine from coming into his mouth.

Al'o the cotton of an Ink-horn, crush the ink.

ink a little out, make it up into a tent, then

put it into the bleeding nostril.

But if for all these remedies the flux stays not, then we must use escharotics; but great care must be had, lest at the falling of the eschar, bleeding begin asresh: the best is burnt copperas; for besides cauterizing, it stays the flux.

If you will have it milder, mingle your

copperas, thus:

R. Galls th \(\beta \). Alum \(\frac{7}{2} \) iv. calcine them, and make them into powder to be blown into the nostrils.

But fuch as stay the flux by cooling and thickning, are made of cooling and binding emulsions, juleps, cons, elect. troches, &c. as before.

You shall also use outward Remedies to cool the blood, as bathing the arms and putting the feet in cold water, somenting the stones and back with water and vinegar.

But when we have tryed all these, and the grief be rebellious, then we must use narcotics, which stay all manner of sluxes from what humor soever, and that quick; the chief of these is Laudanum, given to gr. iii, or iv. in ag. plantag. the body being made soluble; but have a great care you give it not to one that is over-weak, lest the natural heat be overcome. Syrup of Poppies is good, dose

dose 3 i. in an astringent Julep, to Bed-

The Juice of Nettles snuff't into the Nose, and 3 iii. or iv. taken inwardly, and the herb laid pultis-wise to the forehead, temples, &c. is very good.

R. Hogs dung powder'd ziii. powder of Rofes zs. mix them with the juice of plantan, and with cotton, make tents for the nostrils;

Affes dung so us'd, is very good.

Some take the blood that flows, and fry it,

and give it to eat unknown.

Spikenard made into fine powder 3 i. at a time, in plantan water, doth stay the bleed-

ing.

Whilst these things are doing, we must see whether there be any thin, serous, or choleric humor mix'd with the blood; if there be, it must be purg'd out, if not at once, then ost-

ner, thus:

R, Tamarinds 3ß. plantan leaves M. i. boil them in aq. font. 3 vi. close cover'd to iv. strain it, and put to it rhubarb sliced, 3 i. yellow myrabolanes, 3ß. spikenard gr. viii. infuse altogether 5 or 6. hours, strain them, and add Syr. resar. sol. 3 i. rhubarb powder'd, 9 i. F. potio. pro una dose.

In a bleeding that is ancient, and uses to come upon the Patient often, let him take this Purge, at least once a week, and betwixt every Purge astringent Opiats or Juleps, &c. as thus:

R. Roots of Bistort, great Comfrey, an. 3 i. leaves of plantan, knot-grass, rupture-wort, sumitory, an. M. i. the four great cold seedes, an, 3 i. boil them in q.s. aq. to the i. in the straining. dissolve white sugar 3 iii. for three mornings.

In stead of Juleps and Opiats, after they have taken them often, they may use now and then a Syrup made with equal parts of Sugar, and the juice of nettles, taking every morning

a spoonful.

heat of the fpleen, or the reins, then apply

cool things to those parts.

To all these, to strengthen the inward parts, let his dyet be thickning, as Calvesteet, Sheeps-seet, New Cheese, Rice, and the like; his Fruits must be sowre and binding, as Pears, Quinces, Medlars, Services, Conserves made with juice of Pomegranats, Limons, Oranges, Sorrel, &c. let him abstain at first, whil'st he is strong, from slesh meats, &c.

If he be weak, give him some flesh Broths or Panadoes, in which is boiled white starch

made pure without lime.

For his drink give him water wherein steel hath been quenched, and in such water let all his meat be boil'd, having first boiled in it some Nettle-roots. Let him keep himself as quiet as can be, neither walk, nor speak, nor cough; for the stirring of his tongue and jaws increase the flux.

Let his face be cover'd, and his eyes clos'd, that he see not the blood, for meerly conceit oftentimes moves the blood to a greater flux.

Let him avoid immoderate watching, for that will render the blood sharp, and more fluid; sleep tempers the humors, and stays any manner of flux.

Finally, Let him thun passions of the mind,

as Anger, Laughter, Joy, &c.

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AN APPENDIX.

Rules for Bleeding and Purging, &c.

Phlebotomy is practi.'d in five Cases.

1. To evacuate in a Plethora, and Inflammation.

2. To draw from the part affected, as months supprest, &c.

3. To revel, derive, of which before, all

this per fe: For,

4. It cools, but by accident.

5. To preferve, by hindring fluxions, and inflammations, Spring and Fall, for divers other

other griefs; every vein evacuates more or less; the veins in the arm vacuate from the head, and parts below the neck; the Saphena, helps those parts that are lower, as the bladder, womb, &c. and all parts below the reins; but the reins, hæmorrhoids, months, are cur'd by cutting the upper veins; but if they are obstructed the lower. Arteries are rarely cut, because of danger; and if the Virtuosi could invent a way to open them as fafely as veins, they would oblige Mankind for ever. The middle age bear Phlebotomy best; yet in necessity any age, but sparingly; therefore Galen lets not blood for prevention till 14,nor after 70; by reason of debility, and defect of blood; but if they have much blood, strong, and disease require, they may phlebotomize, as Avenzoar let his Son blood but three years old. The habit is likewise to be look'd to, for those that have large veins, not too lean, nor whitish, of tender flesh. may bleed more, the contrary less; so that 'tis more proper for Men, than Women; in Spring and Autumn, 7, Apb. 54, than Summer and Winter. The same of Regions; hot Air disfipates the spirits, and humors; cold, è contra, cools more one that hath loft blood; but upon necessity let blood in any place and time. For preservation, in the morning, an hour after Sun-rifing. In great diseases any hour, and

and in the beginning, and any time of the disease: If he hath used a sull dyet take boldly, else sparingly. Sometimes you may let blood ad animi deliquium, 1. Aph. 23. in great burning Fevers, because it cools the body, moves the belly, and sweat. In great inflammations, it lessens blood, and hinders its motion to a noble part. Lastly, 'tis a remedy for the greatest pains, so that it may be almost call'd maximum remedium; but this animi deliquium is a deceitful measure, for some faint presently, others not, though they bleed too much, so that 'tis safer to keep

within bounds, and repeat it.

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To Phlebotomy, belong scarifying and cupping, of which before, only note, this without that discusses winds, evacuates insensibly, flays bleeding, vomiting, months, 5. Aph. 50. Small ones serve after evacuation, they hurt in the beginning of inflammation and plethora's; they evacuate much apply'd to the arms, hams, buttocks, &c. and scarified, to revel, attract, &c. in acute diseases, fluxions of the eyes, diseases of the head and breast: Their effects are in a mean, between bleeding and leeches; bleeding draws from the profound parts, cups those nigh the skin; leeches, those between the profound and skin. If the blood be gross, foment the part well with warm water, before you fix them, but of these before. Leeches

Leeches belong to bleeding too, they wound the skin with a triangular bite, they are us'd where cups cannot, as in the gums, lips, arms, &c. if you let not the blood flow after they are taken off, in the hæmorrhoids, you will not find such great wonders from them, for my ever honoured Master, Dr. Patin was wont to say, That they are little cunning Animals, and such the purest and finest blood, and so

leave the gross.

Apply them not, till you have kept them a fortnight, or three weeks, in fair water, changing it every third day, then take them in the middle with a clean cloth, and apply them; if they will not bite, wash with a little warm milk the part, or a little Pidgeons blood, or scarifie it a little; if you would have them bleed more, cut off their tails; if you would have them fall, rub their head with aloes, or salt, an argument they suck sweet blood; when you would stay the flux, apply a cleft bean, or tinder, and bind where you may. After they are taken from the hæmorrhoids, let the Patient sit over a basin of hot water, and you may have as much blood as you will.

Purgation is an evacuation of humors, that offend in quality, Gal. in 2. Aph. 1. by quality here you must not understand simple heat, cold, &c. for then alteration would suffice, but a cacochymic species, or redundance of

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humors inept for nourishment. Si talia purgentur, qualia purgari oportet, confert & facile ferunt, I Aph. 2. Sin minus contra. Now according to the three Regions of the body, you are to order your Purges; the first Region, fince the invention of the circulation of the blood, is the intestines and stomach; the 2d takes in all kind of vessels, including the meseraics and capillaries; the 3d includes what is without the vessels; yet the method still remains inviolable: that to the first you must use lenient, to the 2d cathartics, to the third strongest and sudorifics. Purging is either by vomit or dejection, gently, meanly, or vehemently, and taken at mouth, or anus, as clysters, oc.

But let those who vomit, be easily urg'd, and accustom'd, having a large breast, 4. Aph. 6. Hippocrates counsels to vomit two days together, for the second carries off the reliques, strong ones empty the liver and viscera, gentle the Stomach, proper in Parox-

isms, and at other times.

Dejection, is proper for the fick and neuter, not found, unless-very gentle, 2. Aph. 36. 4. Aph. 16. nor old, nor infants, but by nurse, or suppository, &c. the Ancients open'd passages by moissing meats, clysters and baths, 4. Aph. 13. &c. thick humors are to be attenuated, 2. Aph. 9. thin need no preparation.

tion. Purge not in the beginning of a difease, till you see signs of concoction, unless humors be turgent; i. e. mighty unquiet and malignant, lest they fall upon some noble part. For cocta purganda, non eruda; now coction is an action of the natural heat upon passive qualities, and 'tis either of meat, and humors for nourishment, or of morbifie humors; that is natural, this partly natural, partly preternatural; for the humor, being not altogether benign, nor wholly strange, tis not fully overcome by heat; fo that they must be fuch, as hot fyrups, &c. that concoct, cold can but prepare : venefection, gentle cathartics, alteration by contraries help preparation; ferous humors cannot be concocted; hot fyrups, &c. help concoction, (but concoct not of themselves) by cherishing the heat, which concocts after; the same of hot wine, meat and drink, &c.

2. Look to the nature of the disease, which the humor indicates, as a cancer from atra

bilis, a tertian fever from bile.

3. The habit of body: thin, extenuated, cold, dry bodies, & care sparingly, or not at all to be purg'd. Women with child are not to be purg'd, unless from the 4th month to the 7th.

4. The Air, for too hot, or too cold, is hurtful; in a hot season bodies are less apt to

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purge, 4. Aph. 5. before and after the Dog-days medications are difficult, because the spirits are exhausted by heat, which is augmented by purgers; heat draws to the circumference, the medicines to the centre. In Winter, humors are scarcely mov'd, because cold densates; Spring is the best, then Autumn; the same of a temperate Region, &c. yet if necessity, purge at any time, even upon a critical day, if judgment be not then expected; whence Hippocrates purg'd the 7th, 14th

day.

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5. Know whether he formerly used a bad dyet, as in Famine or War, then you must purge by degrees; interim nourish with good meats; so those use much exercise, need little purging, or those apt to vomit, &c. Dejectiones non sunt numero estimanda. Beware of too firong, or too gentle evacuation; firong weakens, hurts the Stomach, 2. Aph. 3. caufes convulsion, and other bad symptoms; gentle, movent sed non promovent, causes griping, &c. According to Galen, Phlebotomy ought to precede; ubicunque majoris utriusque Presidit equalis occurrit necessitas, à venesectione est auspicanda curatio; but some premit a clyfter, which is call'd purgatio minorans, to remove the impurity of the first region, lest it should take place of the vacuated blood; 'tis good that the rest may be the easier concocted.

ed. Purge not in a Paroxism, unless in quartans, and chronics, and strong men; for the thick humor is easier purg'd when 'tis mov'd; you may sleep a little after a strong one. The place affected, and inclination of the humor, shew by which ways you are to purge, as the head by the mouth, nose, &c. the whole body by the intestines, the Stomach by vomit, and belly, taking heed always of purging by the part affected, as in the head affected by sympathy, beware of vomiting, but revel downwards. Lastly, if symptoms vanish, and thirst follow, the Purge was complete.

Purgers by Vrine, separate the blood and ferum; are proper in diseases that occupy the veins and gibbous part of the liver, so let the humor be little or mean, else 'tis to be evacuated per alvum, unless nature inclines to the reins, and it be concocted; for they irritate crude humors, unless very gentle, which may be taken with meat, as fem. melon. &c. crem. Beware them if the urinary ways be ulcerate, &c. then purge first; they hurt in suppress'd urine, and cutaneous diseases, and hot, dry, tabid bodies, and obstructions, before purging, but wonderfully profit womens flux, proper rather in the declenfion, than other times; coction is not less necessary here, than in purging per alvum.

Sweating is good in pestilent Fevers, and

other diseases; to evacuate hurtful humors about the habit of the body, or in the veins, not in the Stomach, or Guts; taking heed it be not immoderate, lest it weaken, 6. Epid. Sect. 2. Aph. 21. in a hot constitution, time, hot diseases, and meagre, abstain from the hotter, give them fasting, after purging, unless the disease be malignant. My ever honoured Master, Dr. Patin, says, it purges on-

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Baths are prescrib'd warm, by Avicen, to hot, dry tempers, if universals have preceded, in declining of a Fever; it opens the pores, moistens, resolves the relicts of humors; if thin and few, In the habit of the body, &c. as in sweat; too hot, è contra. They are natural as therme, or artificial; all therme heat, and dry, falt, nitrous, fulphurous, bituminous, are for cold and moist diseases, as Gout, Palfie, Asthma, Catarrhe, Dropfie, Ulcers, Scabs bard Spleen, Liver, Womb, &c. Aluminous, for spitting blood, vomit, hamorrhoids, too many months, abortion, too much sweat; iron and calcanthous for the Stomach, Spleen, Reins, Ulcers, &c. they help all parts they touch mediately or immediately, not for people in health; enter the Bath maked, or with a shirt, &c. the head well cover'd.

A temperate Bath may be us'd any time, a hot only in the Spring, and beginning of Summet; early, or presently after Sun-rise; at evening, two hours before Sun-set, after general evacuation; because it only evacuates thin humors, leaving the thick; time of stay, according to the Patients bearing, less in the beginning; after longer, to two hours; for 20 or 30 days, or more: the Clay is good for the same effects, but to be wip'd off with the same, or hot water.

The Artificial supply the natural, by disfolving Sal, Sulphur, Nitrum, &c. A Bath is also made of hot or temperate water, the last for children, old people, women, tabid; it moistens, loosens, softens, attracts aliment, helps scabs, weariness, itch, pains, winds, melancholy, heaviness of the head, watchings; long stay resolves and dryes, shorter softens and strengthens; hurts with a full belly, and plenty of crude humors; or weakness of a principal part.

A cold Bath, though it may profit by Antiperistasis, strengthen stelling men, stay slux, yet it hurts children, old men and meagre; Baths may be made also of oil, milk, wine, &c. of the nature of which simples they partake. Pliny, 5. Ep. 6. recites divers parts of an arriscial one, which are not us'd with us.

Mineral waters are us'd to be drunk also, they are hot or cold; believe not that those which wash solid metals, as Gold, Silver, &c. n

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can obtain any thing from them. They partake of the spirits of metals, or those minerals which may be diffolv'd in water, as the aluminous, nitrous, calcanthous, which are believ'd to be iron, but calcanthum is the original of brass and iron. Bitumen and Sulphur fwim a top whence the water is unctuous, of a clayish color, it softens and opens. Nitrous are of a sharp taste, loose the belly, dry, absterge, akin to which are the saltish. Aluminous are known by the taste with binding, they cure ulcers, and fluxes. The sharp taste, thew the calcanthous, good in all obstructions; some confift of two or three minerals, as Sal, Sulphur, Alumen. They are to be taken in great quantity, proceeding by degrees; considering the nature and age of the Party, first take to ii, ascending to to v. or vi. not all at once, but between 2 or 3 hours space, every hour repeating the dose twice or thrice; if the water be cold, drink no fresh, till that first be warm'd, and no heaviness perceiv'd; they force a way by their plently by fiege or urine; yet to promote operation, fome add opening Syrups, limon, byzant. capil. vener. &c. or folutive, sal, manna. pouders diacartham. &c. walk-after every draught, not to fweat, fupper larger than dinner, drink White-wine or Ale; if they work not; use cathartics and clysters, as jalap. sem. ebul. &c. Of

Of particular Evacuations before: only note, Errhina's hurt diseases of the eyes, ulcers and tumors of the nose; as Sternutatories in vertigo and epilepsie; so Masticatories and Apophlegmatisms, of the Mouth, Stomach, Breast, by drawing humors to the parts.

For Bechies, they hurt in inflammations, ulcers, and tumors of the breast and lungs; but are good to evacuate pus, to cut humors if thick, and bring them in mediocrity if too thin. By the palate, not only the breast, but the whole body is emptied be quick-silver.

If he vomit too much, give milk boil'd with bread, or mastich; smell of a toast in vinegar, bind and rub the extreme parts; or sirst apply empl. è crust. panis, or a pultis of leven and mints; or fix a cup to the bottom of the Stomach, give syr. menth. absinth, &c. diacalaminth. arom. ros. a pouder of coral. corn. cerv. ust. menth. last theriac. or one pill of laudan.

If he vomit not within an hour, or fo, after taking it, give him a 4th, 3d, or half of

same, or some other he took before.

If one purge too much, stay it not suddenly, but give lubricating, lenisying, thickning things, as mucilag. sem. ciden. psiliii, malv. gum. tragac. aq. bord. tepid, or any tepid water; if blood come, R. ol. amygdal. dul.

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Here your Chymists cry up their preparations as the best, because, say they, they continue the bestly loose for three or four days after; for which I like them the worse, because by their too fiery nature, if given by ignorant hands, they prey too much upon the humidum radicale, and cause a colliquation.

Thus much for the Rules the young Artist ought to observe in administring the maxima

& generalia remedia.

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ANATOMY.

O enumerate its Antiquity, Progress, and Excellency, would be needless, being all have it in great veneration, except your Quacking Chymiffs, who have been sufficiently reprov'd in all Countries, and by feveral in ours, last of all by the learned Pen of Dr. Goodall, who, I may fay, Hic murus abeneus esto; as old as facob, Gen. 52. and other places in the femile Law, Ecclef. 12. all Homer's Poetry flows with flourishes of it. Its utility to all, befides Phyfician, Chyrurgion, Apothecary, I shall wave, fave the two last. To the Chyrurgion 'tis absolutely neceffary, for if ignorant herein, he may commit mortal errors; and how can the Apothecary apply topics by the Phylicians order, if he

he know not the fite of the parts? so that you see as divine Plato would let none enter his School of Philosophy ignorant of Geometry, so none the School of Physic if ignorant in Anatomy; which is the basis of Physic, and if unknown or neglected. the whole Fabric, must needs come to ruine.

'Tis an exact artificial diffection of a body, I. In general, into the trunk; i. e. head, breaft, belly and limbs; wherein you see a bone, cartilage, ligament, membrane, fibre, vein, artery, nerve, flesh, fat; similar parts, of which the diffimilar are made; compound, as the heart, &c. more and most compound, as hands, and

limbs: of all which in order.

A Bone is a most cold, dry, earthy, hard part, made to be the pillar and defence of the other parts. A griftle is softer than a bone; in old men sometimes it degenerates into one; they are plac'd about the ends of bones, glu'd to them for their conservation and easie motion; yet some are separated, and make a separate body, as those of the lower jaw, the articulation of tibia and femur; besides those of the laryna, and wind pipe; others prop up soft parts, as the nostrils and ears.

A ligament binds the bones together; fofter

than a griffle, harder than a membrane.

A membrane, or coat, is soft and dilatable,

the covering of other parts, or the receptacle of fomething, as the stomach, bladder, gall: therefore 'tis properly a tunic, if it make a hollow body; if it embrace a solid body, a membrane.

A fibre, is a thred stretched over a membrane, or interwoven for its strength; according to its various site upon it: 'tis divided into right, oblique, and transverse; not only for their mutual help, but to strengthen the membrane; from every one,'tis thought, is performed an action; as the right draws, transverse reteins, oblique expels; which absolutely depends on the inbred faculty of the part, which, as it hath violent dilation, so hath it spontaneous and natural contraction, by reason of the sibres.

A vein is a membranous vessel, round and fistulous, alotted to contain and conduct blood

through the whole body.

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An artery is a pipe of the same membranous nature, but a little harder and thicker, design'd to contain and distribute the arteri-

ous blood, up and down.

A nerve is a pipe made to carry animal spirits, which because 'tis most subtile, therefore the cavity of this pipe is so small, that 'tis not discernable. Flesh in dissimilar and organical parts, where a bone is wanting, is the soundation of the other parts, and makes the chief

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part

part of corpulency; 'tis foft, thick, concreted, and concocted of blood only, if red; or of blood and feed, if white : vifcerous and musculous, very red; membranous and glandulow, white: for every substance of the bowels is call'd fleth, or parenchyma, a congelation of blood. The thicker substance of certain membranes which are the conceptacles of fomething, which by dilating and contracting their body, ought to draw, retein, and expel, is also call'd flesh, or flesh-like substance : the thick spungy substance of the glandules, is call'd flesh; but chiefly the substance of the muscles deserves the name of flesh. though it appear, all the parts being finish'd, and in a big child, and grow to to the parts themselves; because in the composition of organic parts, it oft concurs to make the bulk; my ever honoured Master, Dr. Riolan, numbers it amongst the similar parts: 'tis the thinnest part of blood, fat and oily, sweating out of the veins through their tender coat, and hardning about other membranes; 'tis twofold, with Aristotle, Prince of Philosophers, fofter, outer, harder inner; i. e. Pimele and Stear, Grease and Suet.

Of these you will hear mention often made in explication of the dissimilars, though in some places they exist a part, not join'd to others to make an organ, but are consider'd r

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according to their peculiar uses; Yet are united in organic parts, to perform action, or for use; and according to the various offices they execute to effect action, are divided into four orders; for in every organ there is the chief part, by which action is perform'd, another without which it cannot be done; a third, by which 'tis conferv'd: But in every organ the chief part ought to be fimilar, and proper to it, fuch as is not found in any other; which fimilar cannot officiate alone, if not helpt by others, therefore the consent and union of others is necessary; wherefore every moveable action properly belongs to an organic; none, unless alteration, to a similar, to which, besides the composition of an organ, belongs only use, which it contributes to perfect organic action. So from the dignity of their action, organics are divided into I. principals, which supply the whole body with matter and faculty; with Phylicians they are 3. Cor, Cerebrum, fecur. Aristole held but one, i. Cor. King of all; the rest are 2, ministring and subservient.

Now exactly to investigate the structure of every part, observe its name, substance, temper, origine, site, quantity, number, sigure, color, connexion, communion, action and use. Connexion differs from communion: for connexion is an adhering of a part to its neigh-

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bor,

hor, be it one or more, of which it depends; which is sometimes taken for the origine of the part it self; yet in some parts origine is distinguish'd from connexion: But communion with parts nigh or remote is universal, by veins, arteries and nerves, by whose intervening all parts communicate with one another; or particular, when any part communicates with remote or nigh parts, by peculiar pipes; so the gall communicate with the liver, and duodenum by bilious passages; the reins and bladder, by the ureters, with one another.

Order of doctrine begins with the bones, but diffection with the belly, in Greek Coilia, because hollow; fited from coste nothe, or disphrag. to os pubis; hath three Regions, upper, Stomachal, middle, Umbilical; lower, Hypogastric. The sides of the upper are Hypochondria, of the middle Ilia, the lower the Navel. Sides of the Hypogastrie are inguina, the middle etron, the lower pubes. Divided by peritoneum into greater cavities, which hold the nutrient parts; and the leffer the bladder, genitals in men, and womb in women, which bare no child. Hath parts containing and contain'd; the first proper, common, and diverse; common, cuticula, cutis, membrana, adiposa, carnosa, & communis musculorum; proper, the muscles and peritoneum; diverse, because

cause refer'd to other place and use, are partly stelly, parrly bony, as vertebra lumborum, & pelvis and muscles as hereafter. The contein'd are nutritial, and genital; 'tis knit outwardly to the breast and lower limbs, by the skin; inwardly by peritoneum. It presses the parts contain'd to expel excrements up and down, and force the child.

Cuticula first appears, like the peel of Onions, efflorescentia cutis; next cutis; of an exquisite temper, porous for insensible transpiration; immoveable save the forehead, not in Beasts, and the Elephant kills Flies, moving his skin, rids sweat, and suliginous silth. Then Membrana adiposa, sticks close to cutis, and membr. carnos. save in forehead, cods, and yard; warms in Winter, cools in Summer: under it is membr. carn. obscure in aged, in brutes 'tis next the skin, by which they often move it, rigor comes from it. Next membran. commun. muscul. thin, yet strong, compassing them like a girdle.

Before the muscles of the belly are treated of, the general doctrine of them is to be pre-

mis'd.

A muscle is an instrument of voluntary motion, depending on our will; and because it governs the action, 'tis dissimular, compounded of many similars, in which shesh predominates; yea, by shesh, Hippocrates and P 5

Aristotle

Aristotle understand muscles. Besides siesh, 'tis compos'd of a vein, artery, nerve, sibre, membrane, ligament or tendon, and so hot.

Its true original is blood in the first forming of parts, but by connexion in its ends, 'tis said to rise from a firm part, and be inserted into a moveable one, because design'd for motion, which is caus'd from something at quiet.

This original and infertion is known by conduct and series of fibres, whereby you may judge of its site, whether right, oblique, or transverse; for by these positions in a man's body, all the muscles of it inward and

outward are dispos'd.

Their quantity and magnitude are various, according to the variety of places, and parts to be mov'd, which require greater or smaller muscles.

Their number great, my ever honored Master, Dr. Riolan, computes to be 431. but fince our body is double, its muscles are so too; few single, as sphinters and diaphragma.

Their figure various, square, triangular, round, long, four-sided, deltois like \triangle three-sided, yet are usually round, whether you regard its circumference in a plain muscle, or its bulk in a long and thick one: Therefore Hippocrates 1. de arte, defines a muscle, slesh turn'd about

into an orb; but their greatest part are longish: wherein observe their middle more swell'd, the ends narrower; the middle is call'd venter; the immoveable end caput, the moveable tendo, or aponeurosis, because 'tis inserted into the part to be mov'd; each end, for the most part, is nervous, but tendo is all nervous, in almost all the long muscles; venter is carnous, seldom nervous.

Their color red for the most part, livid, and leaden in a few, sited in some sordid place.

Their connexion double; in both ends, and deverse parts; whereof one ought to move, the other not. Moreover, they move the parts to which they adhere in passing, though not design'd so to do.

They all communicate with parts by veins, arteries and nerves, which they receive above their venter, to infuse in them a motive

power.

Their action is universal, agreeing to all of 'em, i. motion; particular, i. the motion of some one part. This is persom'd by its contraction, when whil'st retracted towards its head, 'tis shortned, and swells without; which agrees with all, except those of abdomen; which, acting and contracted, swell within, because they have no opposite bones to thrust against; therefore its true action is contraction, or conserving what is contracted;

ed; which motion is call'd tonicus, in one muscle remaining long in one figure, or in many acting and extending together, as when the whole hand is held long elevated and extended.

The motion of other muscles, as extension and relaxation, are only by accident. On these motions depend the motion of the parts, which are not only distinguish'd by difference of place, before, behind, upward, downward; but also by figure of the part, which is the fite of the part in motion. Now their fite is either larger, and that streight, call'd extension, or oblique, and that either lateral, as abduction, and adduction in the finger, or with inverfion, as pronation, and supination, in the hand and radius. Also by reason of their like or contrary motion, they are call'd fellow or brother muscles, which in opposite places conspire to the same action, as the muscles, which bend the cubit, are fited in the same part; the temporal muscles wich move the jaw in divers parts: fuch as perform a contrary motion, are call'd antagonist, as the benders are oppolite to the extenders.

The fellows are almost always alike in magnitude, number, strength; the antigonists vary much according to the weight of the part to be mov'd, or vehemency of the action. The conduct of the sibres, shews the manner of

action in a muscle by its site; for so you may easily distinguish a right one, from an oblique and transverse. Also the diverse conducts of the fibres, in the same muscle, as they are directly carried to divers risings and insertions, shew the diversity of actions in the same muscle, as in the Trapezium; for by the extremities of the fibres, you know the bead and tendon; where the nerve is inserted, there's the head; but the tendon is more nervous than the head, and directly opposite. If a muscle perform one action, or many, according to the variety of its rising, it obtains divers connexions, i. beads and tendons.

Now a tendon is the extreme part of a muscle, by which we bind and move the bones: begot in the first conformation, the first and chief part of a muscle, which takes its beginning from the muscle's rise, and is spread about all its body; if a tendon is nervous in the beginning, 'tis so in its end; or if in the beginning it be divided into stell by sibres, they are after united to form a tendon. Such have strong muscles, which execute strong action in slexion, extension, and tonic motion, as in the upper and lower joints, and back, for the erection of the spine or trunk of the body: other muscles, as they are sibrous in the begtnning, so are they in the end.

Much fat is cast about a hard and rough

tendon, to moisten it, that it may move the easier; therefore fibres disperst through the slesh, are nothing else than a tendon so divided, and torn asunder; and vice versa, a tendon is nothing else than united fibres; and therefore a tendon is either compact and solid, or divided into fibres.

Now tendons are folid or plain, or membranous, or round, short, or long; if they be nervous in the beginning of a muscle, they will be such in the end: sometime they are seen nervous in the end, although they have original from the sleshy head of muscles.

The hardness, thickness, lightness, and silver whiteness, with excellent clearness of a solid, long, or membranous tendon, is admirable; whence it acquires so much comliness, that Fallopius, a most excellent Padnan Physician, affirms there's nothing more beautiful than a tendon, and chrystalline humor; wherefore since 'tis a similary part, begot of seed, endow'd with a peculiar substance, such as is never sound but in a muscle, it may deservedly be thought its chief part, on which depends its action; the other parts co-operate with a tendon.

Of the muscles after, under which lies the peritoneum; stretch'd over all the parts of the guts, whence so nam'd, ab Arabibus siphae; 'tis the largest membrane in the body; double and

and unequal, observed to be thickest from the navel to the pubes in women, in men contrary. The external membrane is knit to the vertebra lumbor. the internal is disjoined to receive the reins, and redoubled to make the mesentry, cover the diaphragm, and liver; communicates with chief parts, and particularly with all parts contained, giving them membranes, ergo may be called their mother; as meninges of the brain, white as other membranes are.

Next the Caul, a thin, double, sat membrane, divided into sour parts, intestinal, hepatical, lienal, mesenterical, because it covers them, and rises from the last. Under this lie the Guts, a tubulate body, rising from the pilorus, and diversly circumvolv'd, end in anus; 'tis one body, but diversly, nam'd, because of its divers conformation, use, life, &c. chiefly divided into thin and thick; the thick surround the thin in the middle; the thin divided into,

1. Duodenum, 12 fingers breadth in length,

begins at the Stomach.

2. Jejunum, betwixt this and duodenum, is the choler passage, near which is the Sweet-bread passage observed by Virsungus; it begins where the guts begin to be wreath'd on the left side; lies wholly in the navel region a cubit and half long.

3. Ilium

3. Ilium, from winding, slenderer, but longer than the rest; occupies Ilium and Hypogastrium; it is subject to passio iliaca, which is an inflammation, not a twisting of it; and falls down sometimes into the groin, and cods. The thick,

1. Cecum. and its wormlike appendix.

2. Colon, the largest of all; it begins at the right rein near the appendix, and turned upward, lies under the liver and stomach, passeth to the lest Hypochond. where 'tis wreath'd: in its obliquation and descent towards Ilium, it touches the lest rein, and a little below, bowed like an S, ends in the top of Os Sacrum. To its beginning is fastned a valve opening downward, hindering any regress from the great guts to the small; 'tis knit to the membrane of the peritoneum.

3. Roctum, which from the top of Os Sacrum, pergit ad annum; they are seven times longer than the body, the thin are to carry the chyle, the thick to receive the excrement;

The Mesentry binds the guts in their places; seated in the middle belly rises from the vertebra lumbor. 'tis double, between is sat, and many glandula, and a sourfold kind of vessels, (vena lactea being the 4th) Seeing it communicates with the spleen, per arterias celiac. & venam splenicam; the guts by connections, liver, &c. and hath a sat glandulous

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fubstance fit to retain impurities, it may well be call'd the Nurse of diseases; therefore with Fernelius, one ought to have a great care to purge it, &c.

The Sweet-bread, Pancreas is a spungy mean between slesh and glandul, reaches from bepar to splen, both whose silth it receives, call'd the last's Deputy, and lies under the Stomach.

Within the belly are contain'd two notable veins, one call'd porta, dispers'd to parts design'd for nourishment, going no further; the other, call'd cava, nourishes the whole body; cast without peritoneums cavity, join'd with aorta, creeps along, lumbos and dorsum; and is thought produc'd from cor, not ven. porta's trunk; descending the belly, emits,

1. Gastrepiploim, distributed to the stomach

and caul.

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2. Intestinalis, to duodenum.

3. Cyftice gemelle, to the gal.

4. Gastrica minor, to the right side of the stomach.

These branches thus produc'd, the trunk is divided into two famous branches, splenical and mesenterical; this into four, of which the largest keeps the name.

2. Homorrhoidalis flides to the right gut.

3. Cacalis, carried to the blind gut, or beginning of colon.

4. Goes to, and nourisheth the rest of colon, lost in the pancreas. The

The Splenical, where it is detected, produces four opposite veins above and below; Gastrica major, ascending to the letst side of the stomach; Epiploica dextra opposite to this, dispers'd to the gaul; coronaria stomachica to the stomach; epiploica sinistra to the caul.

The celiacal artery accompanies the branches of vena cava, and is a branch of the great artery descending; and look into how many branches vena porta is divided, into fo many is this; communicates with vena porta, by conjunction of their mouths. In Hippocrates; lib. de morbis mulierum, 'tis call'd the breathing place of the lower belly. Duret in Coac. Hipp. p. 383.

Notable is the Splenical artery, which goes not by the panceras, but creeps according to the longitude of the deaphragm, by the spine; ris as big as the splenical vein, ambiguous in its progress, and gives no branches to neighbor parts: inserted into the spleen by a double forked branch, as the splenical vein is; so when the celiacal artery is taken away, looknot for any other Splenical artery, unless two or three small arteries, passing to the stomach.

The Stomach confilts of 2 proper membranes, and I. common from peritoneum, fited between the liver and the spleen, like a Bagpipe; the ingress is called Stomachus, the egress

Pylorus,

Pylorus, equal in heighth, lest Victuals should slip through before digested; communicates

with all parts of the body.

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The liver, the organ of blood, is like concreted blood, fited in the right bypochondrium, under the short ribs. In man 'tis not divided into lobes, or fingers, as in brutes, yet there is a cleft, where the umbilical vein creeps into it, and sometimes two little ones under it, or one which receives the vena porta trunk; though it be continuous, Anatomists divide it into two Regions.

1. Superior, exterior, call'd gibbous, into

which vena cava sprinkles its roots.

2. Inferior, interior, call'd cavous, into

which vena cava scatters hers.

The gall-bladder, is a two-coated membrane, receives the choler flowing from the liver, fix'd to its great lobe under it, it refembles a large Pear; hath cystic and hepatic pipes to carry choler; that carries thin choler into this, which carries thick and all away.

Spleen is plac'd against the liver, and is its bastard, and lieutenant in blood-making; spongy, sprinkled over with many vessels like thrids; knit into the stomach by remarkable veins, call'd vas breve, by which it disburthens it self into the stomach; splenical veins and arteries into the guts and reins; like a tongue in brutes, the sole of a foot in men.

Here

Here of the vena cava, and aorta, within

the belly.

The trunk of cava in respect of the liver, which by a branch supplies it with blood, may be divided into the upper and lower trunk; the lower produces vena adiposa, dispers'd into the fatty membranes of the rein, then the emulgent, distributed to the rein; then the spermatic, whose right side rises from cava's trunk, the lest from th' emulgent; lastly, it emits 3 or 4 branches, call'd lumbares, into the loins, even to spina medulla.

When the trunk comes to the top of os facrum, 'tis parted into two pipes, which from their fite are call'd Iliaci canales. From these on both fides are produc'd other veins, chiefly Sacra, Hypogastrica, Epigastrica, Pudenda. In Women Hypogastrica is larger, and nourishes more parts, holds the menstrual blood, till sit for voiding; Epigastrica is twofold in women, 1. Ascends to musculus rectus, th' other oppo-

fite descends to the womb.

Seeing the veins are the veffels and conceptions of blood, they have a thin coat, except that this cava's trunk hath a thicker and fironger, to prevent breaking, if the blood should swell and boil in't, and might by the coats tenderness sweat and breathe out. Hippocrates elegantly calls the veins spiracula corporis; because they being open'd, there issues

a fuliginous spirit with the blood, and at the same time Air let in cools.

The descending trunk of aorta emits so many branches, as th' inserior trunk of cava produces; but transmits the remarkable splenic artery undivided, winding to the spleen. This is broad, of the thickness of a quill, surnishes it with arterial blood, that the thick blood might be attenuated, and made sit to nourish the stomach, and neighbor bowels; and afford a fermenting juice to the stomach for chylisying, by that mixtion of both bloods. Perhaps also in a great obstruction of a viciated liver, arterial blood may be brought to it by the splenic vein, and be as it were a natural tartar vitriolate, so decobstruct it.

Then it produces celiaes, which is divided into as many branches as porta, and hath communion with it by a mutual anafomofis, i. conjunction of the mouths of the veffels.

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es uTh' aorta trunk is made of a tunic 6 times thicker than a vein, so not subject to an aneurisma, as the lesser arteries are, from their coat dilared, broken, or open'd, as in an artery cut for a vein, in the arm.

Between the reins at the base of mesenterium, look for Fallopius's texture of nerves, wove of the stomachic and costal meeting on both sides; from which are deriv'd all nerves distributed to the lower belly.

Renes

Renes, instruments of drawing and separating ferum, have a fleshy substance, the like in no part; fited in the loins, within the peritoneums folding; and feem to be plac'd without this cavity; faid to begin at the last bastard rib, they are two that one might supply the office. From the hollow fide spring the eureter and emulgent veins and arteries proceeding from cava and aorta. Within are Pelvis form'd of ureter dilated, into which drops serum through 9 carnneulæ papilares, where tis separated from the blood, which nourishes them, or reflows to the emulgent veins; thefe are sharpned without into 9 pipes, made of the ureter dilated.

Vreter is a Pipe to convey the urine to the bladder, which is its original, rather than the reins, because membranous; within the reins parted in nine, fitted to the papilar caruncles, to distill the ferum into the ureter bafin within them.

The Piss-bladder, is of a membranous fubstance, confisting of two coats, the third, which is attributed to it, is a doubling of the peritoneum, in which it hangs, like a bottle invers'd, and with this partition is severed from the guts, and other parts, only in man, lest it thould be displac'd with the weight of the guts; it's shap'd as a bottle invers'd, whose bottom is in the lower Hypogastrium,

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the neck hid beneath under offa pubis. The urine passes out of the greatest hole, the other two are the ends of the ureters: museul. sphincier's form'd of it, contracted, shuts its orifice. There is another externus spleniacus, two singers broad, placed about its neck, and prostate glandules, upon this depends the power of its shutting and opening, it hath veins and arteries from the bypogastrics, nerves in its neck from os sacrum; in its body from a nerve of the sixth pair.

Of the genitals in Man, the yard, with the bladder, is first to be explain'd. It hath no scarf skin; cover'd with loose skin, which doubled makes the preputium, which covers the glans, to which 'tis ty'd with the bridle: then a membrane which ingirts its ligaments, then the vessels, 2 erector muscles, 2 ejaculators, then 2 ligaments with urethra, 'tis spungy, not continued to the bladder-neck, but

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Next inguina notanda, in which the cruml vein and artery, with nerves descending to the thigh, whereon rests the production of the peritoneum, drawn through holes of the oblique tendons and transverse muscles; over this the cremaster carried athwart through the groin to the cod, descends to the testicle, &c. above the bending are kernels lying close the peritoneum's process, below, near the vessels

vessels are other, bordering upon vessels; within the process are contain'd vas spermatic. carrying seminal matter ad testem, and another returning from above, carrying it from it to the feed bladder; within the process descends ilium, peritoneum's inward coat being relaxt, if broken to the cod.

Scrotum is the stones case; they are oval, glandulous, for making feed; made 1. of three proper membranes, for each hath two common, cutis and dartos; the first proper is enthroides, from cremaster expanded; the second the production of peritoneum, infolds them; the third call'd nervea, immediately infolds them; on them orethwart lies epididymis, like a filk-worm, to the end whereof cleaves vis Spermatic. deferens, and parasta cirsoide, entring testis substance, and emptying the seed matter; from the other rifes vas ejaculatorium.

Womens genitals are external, internal: these prepare seed, or its matter, to speak with Aristotle, and afford place to conception; these are visible, and must be contemplated before diffected; therefore le; us flay a while in the Porch, before we enter into the Sacred Cell; where is, 1. pubes : 2. the passage shut with valves, (whence vulva) call'd cunnus; the valves are term'd labra cunni; which drawn aside the nymphs appear, solid, membranous excrescences, broader a top; where occurs a

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TS 1 lethy fleshy tubercle, call'd clitoris; the nymphs distracted we see caruncula myrtiformes, whereof 2 are lateral, 3d below towards anus; the 4th plac'd always at the end of urethra. These appear in those alive; thrust your finger into a Womans sheath, you'll feel it rough, like an Oxes coat; if you go higher, you'll find the inward orifice of the womb; all that space is call'd collum ateri.

In Virgins, after the nymphs, occur a membrane call'd Hymen, drawn over the orifice. pierc'd with a little hole; if this be found, carunculæ myrtiformes are not. If it be wanting, the caruncles are so tumid, they fill the orifice, that they scarce admit a little finger without pain.

To shew the inward parts, the parts of the podex must be cut up too, then the symphysis of offa pubis detected, the griftle plac'd between them, must be divided with a sharp knife.

These parts may be divided into those which compose the womb, and preparers of seminal matter; these differ from Mens only, that they are not so straightly or windingly united, as to make parastata cirsoide. One part of these is caried ad testes, the other ad fundum uteri, a 3d creeps ad principium vaginæ. Teftes are within, unlike mens, want Epididymis; but one coat, foft, made of little

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little bladders, wherein is a ferous humor, will fourt in the face of the diffector, if he beware not.

These observed, view the womb with its external parts; in its upper part rise the horns and four ligaments, two broad from the peritoneum; in Virgins like Batts wings, they hold the womb from falling: two round and longish, hollow, from near the horns; when they come to clytoria, they spread like a Goose foot.

The body of the womb is fleshy, spungy, as thick as a mans singer; cloath'd with 2 membranes, 'tis sited in imo hypogastrio, in the middle between intestinum rectum, and vesica; 'tis like a small cupping-glass, sometimes divided into two cavities, whence some bring two or three children at a birth. The cavity in Virgins so very small, as to contain about a

little bean, in mothers larger.

The Chest, the mansion of the vitals, bounded below by costa notha, and diaphragm. above by elavicula, its whole amplitude is form'd of all the ribs, vertebra spina, and sternon. The neck comprehending the beginning of some parts which belong to this, is refer'd to it, rather than the head, though its pillar. Its common containing parts are the same with the belly; only the sat and sleshy membrane, receive the paps in both sexes; in Women for

for ornament, and to nourish the child, they are made of heaps of cluster'd kernels, confusedly dispos'd upon their peculiar membrane; the biggeft is in the middle, under the teat, made of contracted skin, and boar'd with a little hole, rough outwardly for the childs hold. Its proper containing parts are bony, musculous, of which in their places, or membranous,

As, I. Pleura, includes all the internal parts giving them membranes like the peritoneum: is firmly join'd to the bony parts and midrif; double, which in swellings separate; reflex'd on both fides the back, and rifing to

sternum, 'tis redoubled, and stames.

2. Mediastinum, which separates the lungs and breast into two parts, and is fastned to the claves and midrif, and by help of the pericardium, holds the heart suspended, and binds the Midrif.

3. Pericardium, the hearts case, containing

water to moissen it.

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Next Diaphragma, parts thorax, from abdomen, ty'd to all the bastard ribs, The chief fostrument of free breathing where 'tis, for Birds breathe without it, and to two true ones, and to the sword-like griftle, and so sends two fleshy apophyses to the loins utmost vertebre; its compass made of musculous flesh, its centre a finewy membrane, to bear the beating

of the hearts cone, and bear up the liver, fastned to it, and drawn up within the chest by the intervening mediastinum. Tis cavous towards abdomen, gibbous within thorax; it has venæ & arteriæ phrenicæ, from cava and aorta.

Two famous nerves rising between the 4th and 5th vertebræ colli, are inserted into its centre; it hath perpetual motion by right of the heart, if not equal. Hippocrates calls it the bellies fan.

The Lights are instruments of breath and voice; conflated therefore, of a foft, spungy substance, white without, reddish within; interwoven with bronchia, and pipes of vena erterios. and arteria venos. so as bronchia are plac'd petween the veins and arteries; fited within thorax, and with the heart, fill its cavities, while dilated to fetch breath; but leave it empty while contracted, to expel the footy or superfluous spirits; these motions are perpetual all our life-time; they are divided into two parts, and each into fundry lobes, that one hurt the other may remain found: out of its place you'll fee each part is like an Oxes hoof, cloven and gibbous outward, cavous where it touches the back; girt with a thin, porous membrane to disburthen it felf, in suffocations, into the thorax, and refuck filth there stagnating. 'Tis nourish'd after another

ther way than other parts, for it borrows blood from the heart, whence it hath its veffels, and not from cava; fo those Physicians are deceiv'd who, in its diseases, say 'tis opprest by a slux of blood, which innumerable veins shed into it; it can't receive humors from the head unless with cough, which ceasing, it suffers only from the heart blood.

The Heart, the chief and most noble vifcus, the microcosmical monarch; fons nectaris vivifici; primum vivens, ultimum moriens : a fleshy strong substance, interwoven with allforts of fibres; and lest it should become dry, being the feat of heat, 'tis moilined about with fat and ferum, fited in the middle of thorax; 'tis like a Pine Apple; the broad end call'd the basis, receiving four vessels, vena cav. ven. arteriof. aort. arter. venof. in this are hollow cases plac'd by the vessels, that carry blood to the heart, call'd auriculæ cordis. In aged the right is larger, in infants è contra. The other end's call'd conus; the veins and arteries upon the superficies, seem for repairing the fat.

Before we proceed to the inner structure of the heart, we are to consider how 'tis moud; for its action is motion, or pulsation; for the blood it receives, it expels by beating: therefore there are two parts of the hearts motion, systole and diastole, i. con-

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traction and dilatation when it receives 'tis dilated, when it expels 'tis contracted; between each motion there is a pause, call'd perifystole: How these motions are made 'tis doubtful; rejecting other opinions, Riolan layes down his: 'Tis probable the heart being widened, cannot receive, unless the dilatation be made, by the base being pull'd back towards the cone; that the vessels may pour out blood, and the heart draw it to it. In syftole the heart is contracted, and the blood received is thrust out; then the heart becomes narrower, and longer; and because 'tis shut up in pericardio, which cleaves roundly to the finewy centre of diaphragma, it smites it with its cone; and with its basis and aorta hanging out, it smites the breast, at the same instant that it is extended and lengthned.

This perpetual motion of the heart, though it depend upon an inbred faculty as to its production, yet it cannot perfevere; save by the pulse of blood, with which it frames the vital: But if in every pulse it admit one drop or two, which it casts into aorta, and in an hours space it beat 2000 times, 'tis necessary a great part, or all the blood pass by the heart within 12 or 15 hours. But this quantity may amount to 15 or 20 l. of blood, which is all contain'd in the vessels, ergo, all the blood must needs be revolv'd by the heart twice or

thrice

thrice within 24 hours, as the hearts motion

is quicker or flower.

· But that this Circulation might be performed with greater commody and facility, our immortal Dr. Harvy, Author of this motion, will have the blood to be carried through the lungs, from the right to the left ventricle of the heart, repudiating the traduction through the septum cordis, and that the whole within an hour or two is revolv'd by the heart and whole body; but this way Riolan allow'd not of.

Having explained the Circulation, the heart must be open'd; you'll find it divided into two ventricles by septum medium; the right wider, fofter, the left harder, narrower; defended with a thicker wall, and reacheth to conus, the right receives cava, and arteriof. cav. pours blood into cor; arteriof. recarries all or part to pulmo; to the orifices of cava are join'd three pointed valves to hinder the bloods regress; Arterios's orifice is compass'd with three valves, like figma's to refift its reflux.

The left ventricle receives aorta, and arteria venos, this, fay some, carries blood from pulmo, to the hearts left ventricle, or air prepar'd in pulmo to the same, recarrying fuliginous vapors, which many allow not. Arteria venos. hath in its orifice but two tricuspid Q.4

values

valves. Aorta recarries arterial blood out of the left ventricle; its orifice is obstructed with three sigmoid valves, which hinder blood

from returning.

Now of the vessels, viz. veins, arteries, nerves, contain'd within the ehest; there are a few words to be writ of the other part of the vena cava's trunk; for the whole has been abundantly explain'd in the lower belly : you shall then observe the trunk piercing the midriff, receives the hepatic branch that rifes from the top of the liver, carries blood into cava, and from this oblique infertion to the opening of the trunk in the hearts right ventricle, there is a distance of two fingers breadth: this same opening and cleaving cava to the hearts right ventricle, is contain'd and feen within the pericardium, which when the trunk hath pass'd, ascends the claves; then feek vena azigos, nourishing the ribs; then the entercostal, on each side one rises from cava's trunk ascending; if azygos branches reach not to the upper ribs.

When the trunk comes to claves, it produces the double mammaria, internal and external, both carried to the dugs along sternon; but the inward, and greater, transmitting a scion, by a hole of sternon, to the dugs, runs to the right muscle, to join to Epigastrica.

In separating cava, you shall observe a

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great glandule underneath, in the throat placed under the claves like a cushion, to sustein their branches, call'd thymus, soft in young ones, and calves, and is deliciously eaten with pancreas.

From the Subclavian branch, proceed four

remarkable ones.

1. Anterior cervicalis, spread over the mastoid muscles, ascends to the chin, bedew-

ing the necks foreparts.

2. Jugulsr. intern. ampler than the extern, which ascends the neck under the mastoid muscle, and about its middle is cut into three branches, the thicker and greater going to the vertebra, enters the brain, by a hole near the styloid apophyse, and join'd to the side-pipes of the maninges, pours out its blood, and

goes no farther.

The 2d branch creeps along the necks fides, and is distributed under the jaw. The 3d goes to the tongue, and puts forth the ranulars, which open'd in diseases of the head, wonderfully help. A fingers breadth distant from this, is jugularis externa, and obliquely creeping under the clavicle, below it emits two scions, whereof one goes strait to muscal. deltois under acromium, and unites to ven. cephalic. the other rises to the heads lateral parts, where parted in two it goes to maxilla's corners, part distributed upon the

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jaws, and all parts subject thereto: t'other portion transfer'd behind the ears, is dispersed upon frons and occiput, upon the temples

by a plentiful iffue.

Now because the arteries and veins are always contiguous, with the same candor you shall search out the trunk of aorta ascending; skipping out of the hearts lest ventricle, immediately in its rising produces two coronary arteries, girding the heart like a crown; you cannot see these exactly, unless you look into the open'd aorta by the hearts lest ventricle; if but one, you'll find a little valve at its orifice, as in vena coronaria.

Aorta's trunk marching a little further, is parted without the pericardium, into two branches; one call'd ascendens, the other descendens. The first is split in three, producing three arteries from the same place; the right ascending to claves, makes subclavia dex-

tra.

The other two rise on the left side, whereof the first is call'd carotis sinistra, bending upward; the second call'd subclavia sinistra, then axillaris, coming to the arm-pits, and nigh acromium, emits cervicalis.

The right subclavian artery surmounting claves, produces carotis dextra, which nigh the corner of the lower jaw, is divided into two notable branches, intern and extern, they're

call'd

coll'd carotides, because if press'd, a caros seizes upon a man, and he loses his voice.

To find out the ascent of these, and their penetrating the brain by holes of the scull, put into the various divisions of this artery, a slexible small wire knob'd at the end; which may be done and seen by the vulgar administration, beginning at the upper part, not lower, as Varolius does, and in the neck put a

probe into the carotide.

Aorta's trunk twisted on the left part, and bent downward, is prop'd by the vertebræ, and in its progress to the os sacrum, on each side, produces so many little arteries as there are vertebræ; and there's no azygos, or lone artery found, to accompany the azygos or lone vein, but such little arteries supply its place; within the breast, they may be call'd intercostal, in the belly lumbar arteries; they insimuate themselves in spinæ medullam, by holes in vertebris; which may be prov'd from Hippocrates in coac. Gal. 1. 4. de loc aff. and from tny even honored Master, Dr. Riolan

Fight famous nerves are to be observed in the breast, 2, diaphragmatic, rising from between 4, and 5 vertebra cervicis; from that thicker cervic nerve passing to the arm, within the doublings of mediastinum, they descend to the nervous centre of the diaphragm.2.recurrent, and 2 stomachic, branches of a nerve of the 6th conjugation, whose trunk you shall fearch for in the neck, nigh the inward jugular, by the mastoid apophysis, where 'tis cleft into two branches, one whereof is spread into the upper muscles of the neck; the other plac'd between the intern jugular, and carotis descends to claves, where its cut into two branches recurrent and stomachic. The reflexion of the left recurrent is found about the bending of aorta descending, and easily before the pericardium be open'd, you'll find the reflexion of the right, about the right fubclavian artery. Riolan faw and demonstrated Dogs to live, and run these being cut away, but without voice; and as bound, they take it away, fo loos'd 'tis restor'd; therefore they ferve for voice, because they run upward, that they may be inferted in the heads of the musculi laryngis, lingua, os byois, which rife from the lower parts. Search for the stomachic nerves below the heart about the vertebra, hid within the folding of mediastinum, from these you'll see 10, or 12 branches drawn into the lungs: and from little branches of each stomachic wound together, is made that admirable texture of nerves in the upper orifice of the stomach. After creeping along the back-parts of the stomach, they are join'd to the coftal nigh the spine between the reins, making the texture of nerves, from which which all nerves, distributed in the parts of

the lower belly are drawn.

All Anatomists derive the costal nerve from the 6th pair, when as it rises from the same point of the brain with the 6th pair. This going out of the scull is streigthen'd by a ganglion about it, and undivided descends upon the neek; when ir comes to the three last vertebra, 'tis environ'd with another ganglion, and made thicker, by an addition of three little nerves; and falling within the breast, in its progress about the spine under pleura, 'tis augmented by accession of other little nerves coming from the dorsal marrow, piercing diaphragma, 'tis join'd to the stomachics, to make the netlike texture of nerves between the reins. So much for the Chest.

The Head, of a spherical figure, mean bigness, is divided into the hairy and smooth part, while undivided; the first call'd the face, whereto belongs the forehead; the hairy reteins the name of head. Again, the head is divided into 2 direct parts, and lateral; the first are call'd synciput, which ascends forwards from the beginning of the hair 4 or 5 singers breadth to vertex, then 2 singers space, and as much after the vertical point, 'tis called vertex; the hinder is call'd occiput, the lateral tempora, because they shew the time of a Mans age, by their hollowness, baldness, hoari-

hoasiness; 'tis made of many parts, containing, and contained; the containing are membranous, bony; contained are cerebrum, cerebellum, 4 roots of spinal marrow, and their

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particles included in their cavities.

The first occurs is cutis pilosa, which has its cuticula; under these lies membran. carnos. the feminary of hairs; which if fleshy, makes the skin moveable, because 'tis fixt to't without any fat between. The pericranium follows, immediately compassing the scull; produc'd from crassa meninx, in children passing by the middle futures, at which time they are not firmly intertext saw-like. Besides this, there is scrap't from the scull a periostion, as in other bones; therefore 'tis not the sculls perioftion, but by a great providence of nature, is spread over the scull, to hold fast the muscles rifing from it; such are the temporal, the strongest in all the body, with which its fellow binds and lifts up the jaw, and bears greates burdens in some, than others acting together: farther it strengthens, and strictly comprehends the muscles of the hinder part of the head; descending to the eyes and stretch'd under the eye-lids, it makes the conjunctive tunic. These being separated, the scull appears, of which in the doctrine of bones.

The scull saw'd asunder, f. a. and the co-

vering detracted, the brain appears, proportion'd to the scull conteining it; for if the brain gives figure to the bones when foft, the scull follows its bulk great or little. If it keep not the natural figure and bigness of the head, its conformation is naught, and so sick and hurtful to the inward senses principal and subservient in their actions. 'Tis of a soft. waxy, white substance, which because, like a kernel, it fucks up humidities, 'tis call'd the great Glandule by divine Hippocrates; 'tis divided into two parts; that which is 3 times greater, reteins the name brain; the leffer in the hinder part, the little brain; both envelop'd with common coverings, call'd imeninges; the first is crassa; the 2d. tenuis meninx, call'd matres by the Arabs, because from these they believ'd the other membranes of the body were propagated. The first knit to the sutures, suspends the brains whole bulk; these connexions are seen, when the Sculs covering is taken away; in this are obferv'd innumerable vessels, wherewith 'tis besprinkled; they are rather arterial, produced from rete mirabile; firetch'd from below upward to the meninx's pipes, where they carry their blood; therefore 'tis this tunic beats, rather than the brains substance.

Now its pipes are 4. 2 lateral, which run along the fides of the lambdoid suture, to receive

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ceive the blood from the internal jugulars and cervicals, or by them, according to the doctrine of circulation, that blood may reflow to the heart. From the union of these 2 pipes, is form'd a third longitudinal, drawn directly as far as the nostrils. From meeting of the 3 below, a 4th rifes, entering the brains fubstance between cerebrum and cerebel. not thut up in the folding of dura mater, but 'tis a great vein, so call'd by Galen, which descending into the former ventricles, makes plexus choroides, dispers'd through all the ventricles to the brains basis. The longitudinal pipe deferves rather the name torcular, than the 4th, because from thence, by innumerable little veins on every part through windings of the brain, the blood is distributed to the lower parts.

Now this crassa meninx divides the brain in 2 parts to the middle, nigh corpus callosum; this diversity is call'd falx, and doubled on both sides, severs the brain from cerebel-

lum.

The thin meninx follows, immediately inclosing the brain, infinuated into its windings; for its substance is without, in a wonderful manner, full of deep windings; for the levity and traduction of little arteries, which disperse the blood here and there; therefore Pelops, Galen's Master, thought the beginning of the veins was there.

A finall part of the corpus callofum being cut away, the 2 fore and upper ventricles appear; which in the the lower part toward the brains basis are larger, and thence rise upward.

A thin partition, form'd of the thin meninz doubled, call'd septum lucidum, quia

oransparens divide these.

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Above the fore ventricles is a tripartite body, call'd corpus pfalloides, sustain'd by three pillars, whereof two are lateral, revolv'd about those eminences, which Galen calls chambers of the optic nerves. The fore one is plac'd between the 2 ventricles.

From the concourse of the ventricles between 2 great hillocks aforesoid, is form'd a

pipe; which makes the 3d ventricle.

In the fides of this the circumjacent eminences form, some nates, some testes; and from that pipe the hole going into the 4th ventricle, is call'd anus.

In the upper part of this pipe lies the glandule conarium, and over this pipe, and 4th ventricle, is stretch'd a thin membrane, begotten of menina, over which runs pleases choiroides,

diffus'd through the fore ventricles.

In the entrance of the 4th ventricle, is plac'd a folid portion of the brain, representing a River Crab's tail unshell'd, call'd vermiformis processus, it opens and shuts the passage

to the 4th ventricle. This is plac'd in the cerebel, which contains 2 other hinder portions of the spinal marrow; as the brain, the 2 other foremost, which with Galen may be call'd the beds of the optic nerves.

The cerebel pull'd away, you will fee how it contains the 4th ventricle in its bosom, between the 2 hinder roots of the spinal marrow, and gives origin to 7 or 8 pair of nerves.

except the optic.

If you gently pull upward the forepart of the brain to its basis, you shall observe the optic nerves, and the nerves for motion, and then choana, i. the funnel, distilling ferum upon glandula pituitaria, and 4 pipes distilling ferum to the palate and jaws; then you shall consider the order of the other nerves, which are design'd in these two Verses:

Optica prima, oculos movet altera, tertia gustat, Quartaque quinta audit, sexta est vaga, soptima (lingue.

Then under dura meninx, in the brains basis, about the circuit of sella Sphenoidis, is rete mirabile of arteries interwoven, form'd of the double carotide.

The Eye's organically made of many parts, internal and external; these are the eye-lids. their membrane makes the conjunctive tunic,

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which fixt to the brim of the focket, binds the eye in its hole. Their extremities are bound with a welt, call'd tarfus, whereto are fastned the hairs born with us, and keep the same length they had at our birth; call'd cilia; their angular meetings, corners; by the greater are 2 little holes, call'd puncia lachrymalia; and to receive tears, &c. glandula lachrymalis, thrust into the little bones hole.

These being observed, the eye-lids are to be cut away, and the orbicular adhesion of the conjunctive to the eye, that the eye may come to sight; which is compacted and conglobated of sat about it to fill up inequalities, and for the eyes mobility, 6 muscles for motion, tunics, humors, veins, arteries, and

nerves.

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Before the fat be remov'd, view 2 glandules: 1. glandul. lachrymal. fited within the little bone underneath; then the other unlike this fited in the other corner; the fat taken away, 6 muscles occur, of which after, then pluck out the eye; whereof 2 true orbicular tunics; the other are impersect, and before you diffect the cornea, take away the aponeuroses of the muscles of the eye.

Then you'll see uvea, and its windowy hole, which makes pupilla, whose outward circuit is call'd Iris; its circumference is adorn'd with little ciliar fibres, stretch'd on the

chrystal-

chrystalline humor, to keep it in its place. Pour out the humors, and you'll find the chrystalline drown'd in the glassy, then the inner superficies of uveæ tunic. appears.

In the eye are contain'd 3 humors, aque-

ous, chrystal, glassy.

The veins and arteries accompanying the optic and motory nerve to the eye, are easier noted within the brain.

The Ear, instrument of hearing, is divided into external, call'd auricula, the cartila-

ginous part.

The inner ear shut up in os petrof. is wholly bony, divided into 3 cavities, the first is concha, bounded with tympanum, plac'd at the extremity of the first passage; it hath a cord drawn transversly, as in a military drum, then observe 3 little bones, malleolus, incus, stapes.

The Mouths extremities are call'd lips, below these the chin, the sides are the cheeks. The inner parts shall be describ'd in order.

The Nose is divided into 2 cavities, call'd nares, parted by a hedge, reaching os ethmoides; on these depend five griftles, two lateral, call'd ale, the middle septum.

The Neck is divided into containing and contain'd parts, first common and proper, of which before, and hereafter: yet observe kernels plac'd upon cartilago thyrois; then little glandules plac'd along the progress of ju-

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gular intern. into which the brain disburthens it felf; under the lower jaw in the upper and forepart of the neck, are 2 other glandules, which often swell, and in them is bred struma.

Tansille at the tongues root, call'd Antiades, Paristhmia; Ulpian calls their pain and

(welling Antiagri.

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The Gums are flesh fastned about the teeth, which cover the holes within and with-

The Pallate is the mouths vault, a very thin bone cloath'd with nervous rough skin,

because it wants a periostium.

At the end of the palate, depends uvula, a fleshy particle; it hinders the reflux of liquids to the nostrils, and purifies their going to the laryux; whence those that have none are hoarse, part of their drink flows back to the nostrils, and from impure air a consumption follows.

Isthmus is a space between larynx and pharrynx, seated in the jaws, like arcia terra be-

tween 2 feas, call'd Ithmus.

The Tongue is a carnous fungous substance, divided into 2 parts; so parted, though strictly connex'd, that one side may have the palsie, the other free; one discolour'd, the other not. Propt by the basis of os byois, and ty'd with a strong band, sited very opportunely in the

the mouth and jaws, that discover diseases hid in the belly, breast and head; for it is tainted and tinctur'd with their moist, fuliginous excrements. and is of the colour of the predominant humor, fo it ought to communicate with those parts; and as urine is inspected in all diseases, so is the tongue, Hipp. 1. 6. Epid. sect. 3. text 14. for it fignifies Lotion, which Galen hath confirm'd, Comment, ad hunc locum. Its pointed end, which smites the teeth, is call'd progloss; its broad part hid in the throat, basis; that it may not wander, 'tis retain'd by a band underneath, call'd franum, hath veins from the jugular, arteries from carotis; under the tongue they are call'd bypoglottides, or venæ ranulæ. and the 2 glandules there ranulares; nerves for taste and motion, and muscles, of which hereafter.

Larynx is the head of the wind pipe, and the pipe of breathing air in and out, seated in the forepart of the neck, call'd guttur; 'tis made of 5 grissles, the 2 greatest make its body: 1. thyroides. 2. cricoides; these 2 are ampler and harder. 3. arytanoides, plac'd upon cricoides, and shuts larynx; within is 4. glottis, that nothing solid or liquid may fall into it, it hath a cover, call'd epiglottis, always elevated for breathing; nor is it depress'd, but by weight of liquid and solid aliment sliding down.

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de th Aspera arteria, or wind-pipe, is sited in the sore-neck, to draw air to the lungs, and carries out sooty vapors; 'tis made of many semicircular grissles, join'd stom one another; impersect behind, nor fill they the circle, because of the gullet lying beneath.

Oesophagus, or gullet, is the way of meat to the stomach, its beginning is call'd pha-

rynx.

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Of the Muscles in general before, now in particular, and first of those of the Belly.

All over it are extended musculous fleshes, which join'd, make its carnous covering, containing and proper. They are divided into 12 muscles, on each side 6; nam'd partly from their fite, and rife, partly from their figure and office, as obliquus descendens, &c. of these 10 are ordain'd to force the inner parts, and fome to move os facrum, and iliums conjunction, the 2 cremafters hold up the stones, which are fitly explicated here: obliques, by reason of site and action, and fibres is divided into ascendens, and descendens, ascend. and transverse, carry a plain and dilate figure. like a membrane; their amplitude answers the latitude of half their belly; yet obliquus descendens is ampler than ascendens, and this than the transverse: the right is as long as the **fpace**

space from the xyphoid griftle to os pubis; though they rife from diverse parts, yet the membranous poneuroses of the fellow-muscles, are so firmly join'd at linea alba, that

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Now linea alba is a parting of the bellies muscles, making a line reaching from the xyphoid griftle, by the navel, to os pubis. This is more evident, each oblique descending's aponeurofis being remov'd, because between the 2 right ones is difcern'd a lineal space, fill'd with white fat, taken for linea alba: though the bellies muscles are knit to diverse parts, whence they are faid to rife, yet they are all inserted ad lineam albam abdominis, & os pubis; each receives peculiar veins, arteries and nerves. Their action is common or particular; common, when they all act equally to press abdomen on every side, neither can they act apart in that motion; particular, when fellows, viz. ascendent or descendent act apart; those depress thorax, these move os pubis, ilium, sacrum's joints, without any or very little preffing abdomen, because it then ceases; but the bony juncture is quiet, and unmov'd, while abdomen's muscles equally compress and bind the inner parts. The use of abdomen's muscles, is while they are quiet to cover the inner parts, and defend them from outer injuries, to cherish and conferve

ferve the inner heat. Now of abdomen's muscles in particular, and then of those that

move os pubis, and facrum's juncture.

Obliquus descendens, from 7 or 8 lower ribs, folded in carnous intersections or sières, like the teeth of 2 combs, with serratus major's, sleshy sibres, and sticking to os iliums ribs, and os pubis, by a broad aponeurosis, ends in linea alba, and, with its sellow, makes one individual tendon.

Obliques ascendens, from os pubis, and ilium's rib, and knit to all the false and true ribs brim, as far as the xiphoid griftle, ends in lin.

alb. by a broad tendon.

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Rectus is fleshy, from sternon, near the xiphoid gristle, and extended along the belly, is, inserted in os pubis, nervous. At rectus's end lie 2 parymidals, sometims wanting.

chiefly the right, but supply'd by flesh.

Transversus, from transverse apophyses of the loins vertebræ tixt to os ilium, and talse ribs, and passing under rectus, by a broad tendon ends in lin. alb. strictly united with its sellow; near pubis, according to the groin's transverse length is cremaster, the stones proper muscle to hold up the testicle, 'tis the extreme part of obliquus ascendens, fixt to the fore, low spine of os ilium; 'tis distinguisht by its redder and thinner slesh, and singers breadths distance; it involves peritoneum's

production to the testicle, and makes erythrois, draws back, and suspends the testicle. stones common muscle is dartos, a continuation of the fleshy membrane, it suspends both stones. Os ilium's joint with os facrum, is mov'd forward & backward in venereal congress; recii & obliqui descendent. move this juncture forward, thorax being quiet, and thighs unmov'd, unless they follow as ilium's motion; facer and semispinatus, from the backs upper part, move it backward.

The eye-brows muscles 1. Erectors, from the foreheads upper part, and spread on its bone ends at the brows, sever'd above the nose. 2, Corrugator, which is no other than each

eve-lids orbicular muscle.

The eye-lid's moved by 4. rectus, belonging to the upper lid, rifing at the eyes inner cavity, and spread over the muscle that lifts it, reaches to the lid. 2. orbicularis ciliaris, encompassing each lid; one drawn under the lids from orbit's circuit. 3d. of a fingers breadth compasses the sockets surface, plac'd under each lid, and touching the brow, firictly binding both lids, elevates the upper, and depreffes the brow.

The eye hath 2. obliques, trocleator, from orbits cavity produces a thin tendon, which, drawn through a transverse griftle fit to the bone, by and beneath glandula lachrymalis, is

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fpred over the eye. obliques min. drawn externally by the great corner rowl'd athwart the eyes globe, comes to the great oblique's tendon; that the aponeuroses of both oblique muscles might meet to pull back, and fix the eye toward the nose; that of both eyes act of seeing might be made one pyramidal line to the visible object. 4. streight. I. Elevator.

2. Depressor. 2. Adductor, or Lectorius, sited at the great corner. 4. Abductor, indignatorius, at the less corner; these from orbit's cavity, and broad aponeurosis, are inserted in cornea under conjunctiva.

The Ears muscles, are rather marks of

muscles, than true ones, as in brutes.

The Noses common muscle is an upper part of orbicular compassing the lips, it depresses it when the upper lip's drawn down; one elevator on each side from the space between the brows stretcht to the nostrils bone, carry'd to their battlement, when these act, the nose is wrinkled; within the nostrils, under the succingent coat, lurks constrictor, sticking to the inner parts as far as the lips.

The upper lips elevator, rising from the jaws cavity, beneath the cheek bone, descends obliquely to it. Its depressor's brought into it from the lower jaws middle. The lower lips elevator from the cheek bones lower part, ends side-ways in it: its depressor from the

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chin,

chin, is inserted to its middle. Its common ones are the lateral, which draw them side-ways.

1. Zigomaticus, longish and thin, from zi-

goma, ends in the joining of each lip.

2. Bucco, because it stirs the cheeks, while it drives the meat this way and that way, from the top of the gums, or bones there, near the farthest grinders ends in each lip; it

may be call'd spincter, or pilorus,

The lower jaws muscles are each side six; elevator from the temples whole cavity, carried under os zygoma, and inserted in the jaws end, by a nervous strong tendon; its adjutor pterygoidens intern. from the hollow of pterygoid's apophyfis, ends at the jaws corner; Galen calls it maffeter internus, digastricus and latus depress it. Digastricus, nervous in the middle, and carnous at ends, springs from apophyfis stylvides, and bent in the middle about styloceratois, is inserted in the chin under the jaws bending : this rifing from sternon's upper part clavicula, and acromium, cleaves firmly to the jaws bafis, in folding the neck and whole face, by which adhesion 'tis faid to draw the jaw down. Pterygoideus extern. forces it forward; Maffeter turns it here and there, and lifts it up; in its origine tis twice headed, one of which rifes from os zygoma, the other beneath it; each being turnish'd

furnish'd with fibres, crossing one another, is inferted into the jaws corner, it may easily be divided into two.

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Os byvis has muscles as well as ligaments by which 'tis suspended that it might be moved with lingua and larynx, fo its mufcles are common to both; it hath 5 on each fide, geniobyoideus, from the inner chin inferted in its basis, elevates it; mylobyoideus underneath affifts this, from the inner jaw where are the grinders, reaching the bones basis; sternobyoidens, from sternen's top, stretcht to the wea-Tand, inferted in the bones basis, draws it down; stylocerathyoidens, from the styloid apophysis is carried into its horns, Genioglossus, from the inner chin, ends in the tongues root and moves it forward; bafingloffus, from os byoid's basis, carried to its root, moves it back; styloglossus, from apophysis styleid, to almost its middle, draws it fide-way.

Larynx is drawn upward, by byothyroideus, rifing from byois's bafis, is inferted in thyrois's, outer and middle part. Bronchus, from sternon's inner part, and covering the wind-pipe, ascends thyrois's bafis, pulls it down. The griftles thyrois and arytenois are only moved, by muscles from cricois; Grycothyroideus anticus from cricois's outer forepart, ends innerly in thyrois's fides, and dilates it; cricothyroideus lateralis, from cricois's lateral patt inserted

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outerly

outerly in thyrois's fides contracts it. Thyro. arytenoidens, from cricois and thyrois, being plac'd between them, cpens arytenois; 'tis shut by one call'd arytanoideus, compassing it like the spincter, and with its basis binds glottis, in tuning the voice. Epiglottis hath no erecting and depressing muscles, as in brutes.

Pharynx hath 7 muscles, 3 fellows. and I fine pari. i. e. Orfopbagaus. 1. Sphenopharingaus, from Sphenois's point, near stylois, bending downwards in the jaws fides, to draw Pharynx up. 2. Cepha'opharingaus, from that part where the head's joined to the neck, descending, spreads to the Pharyna, and seems to make its very coat. 3. Stylepharingaus, from styloid. apophysis, is inserted Pharine fide-way to dilate it, Oesophagus binds it; this from one fide of thyrois compassing round ocsophagus's hinder part, is implanted in thyrois other side; or outwardly fixt to both fides, binds oesopbagus's beginning like the fplineter.

Voula hath two muscles on each fide :

1. Pterystaphylinus externus, from the upper jaw, under the last grinder, ends in a thin tendon, passing through a chink, ingraven in pterygois's upper feat, and there turned back as through a pully, is inferted in uvula's fides.

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2. Perystaphylinus internus, from the lower part of pterygois's inner wing, hath a peculiar moveable grissle for its origine, and ascending the length of pterygois's inner wing, ends at uvula. The heads common muscles move it, and the neck; the proper it alone; they are 14, on each side 7 in the hinder part, on the fore-part one; Mistoideus, from sternon's top, and clavicula's middle, is obliquely inserted in the mastoid apophysis, bends; it 6 extend it 2 large: 1. splenius, from the lower spines of the 5 upper vertebre's of the back, and 4 of the neck is inserted in occiput.

Complexus assists this, from the said vertebræ's transverse apophyses, ends in occipite. 4 small 1. redi majores, from the 2d spondyl's spine are inserted in occiput: under these 2 less streight, from the hinder part of the first spondyl end in occipite; obliqu. major. from the 2d vertebræ's point, come to the first transverse apophysis; from the same place

the lefs are carried ad occiput.

The Neck is bent by 1. longus fited under befophagus, from the body of the backs 3d vertebræ, and afcending laterally annext to all the vertebræ's bodies, ends in the fore-part of the first. Scalenus from thorax's first rib, is innerly inserted by oblique fibres, into all the necks transverse apophyses: 2 extend it, 1. spinatus, from the chests 7 upper vertebræ's 100 t

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of the neck, is inserted into the spine of the recks 2d vertebra. 2. transversarius, from transzerse apophyses of the backs 6 upper vertebræ, is planted outerly into all the necks transverse

processus.

Levator propries, from transverse apothyses of the upper neck's 2d, 3d, 4th vertebre, ends in scapulu's upper corner, and elevates it. Trapezius ab occipite, a top of 5 spine colli and 6 or 9 of thorax's upper, is inserted in scapula's bafis, and spina, as far as acromium; moves it diverfly, according to the origine and direction of fibres. Serratus min. from 4. upper Ribs, ends in coraicoides, draws it forward, Rhomboides, from 3 spines of the necks lower vertebræ, and thorax's 3 upper spines, inferted into its extern basis, draws it back; though by its weight it return to its natural fite: yet a part of latifimus running to the arm, by a loop, cleaves to scopula's lower corner, and is faid to draw it downward.

The Arms muscles are 9, 1 deltoides, from media clavicula, acromio, scapula's whole spine is carried to the arms middle. Supraspinatus thrust into the cavity above scapula's spine, and convey'd under acromion, is inserted in the arms neck; these move it up, Latissimus from os sacrum's spines, the loins 9 of the back, is inserted in part of the arm, a little below the head. Rotundus majer, from sca-

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pula's whole lower Rib, ending almost in the arms middle, assists this: these move it down.

5. Pectoralis, from the 7th, 6th, 5th true Ribs, sternon, and more than half clavis, is inferted in the arms middle, by a sharp tendon between deltoides and biceps. 6. Coracoideus, from apophysis coracoid. ends almost in the arms middle, these draw forward. 7. Instantial single in the middle of rotund. min. and spina, ends in the arms neck, which it obvolves. 8. Rotundus min. from that hollow seen under scapula's lowest Rib, ends in the arms neck. 9. Subscapularis, possesses scapula's hollow and inner part, and is carried to the neck; these move back.

Biceps from a double origine, one from the extremity of glenois's cavity, is convey'd through the arms clift; the other from coracoids apophysis, which, after united, make one tendon, inferted in radium's intern, where it bunches. Brachiaus intern. under biceps, from os brachii's middle, to which it cleaves, ends between radius and cubitus, where they are fastned together: these sited in the arms inner part bend the cubit; 'tis extended by 1. longus, from the scapula's lower Rib, nigh the neck, where it has a peculiar finus, ends in olecrano. Brevis from the arms hinder cervix, ends in olecrano too; for the 3d, Gal. l. I. adminst, anat. c. ult. recites a fleshy lump, con-R 5 founded

founded with 2 foregoing, and inferted into the same part. Riolan calls it brachieus extern. because spread on the arms outside, 'tis plac'd under the 2 former; there Galen acquaints us, that one may accurately separate these 3 by the rectitude of their sibres. 4. Angoneus, sited in the bending of the hinder cubit, call'd ancon, answers to poplitans, rising from the arms lower and hinder part, sited between radius and cubitus, is inserted by a nervous tendon in cubits side, a thumbs length below olecranon; it cleaves sometimes so fast to brachieus externs sleshy end, that there appears no difference, and then 'tis judg'd to be a part of it extended thither.

Radius is bowed down by 1. Superior pronator rotundus, from the inner part of the arms inner condyle, ends obliquely, with a membranous tendon, in radius nigh the middle. 2. inferior pronator quadratus, from cubits lowest. part is transversly carried to radius's lowest part, and is inserted in it, being all fleshy; it also knits ulna to radius, as if it were a ligament: tis drawn back by 2 extern. 1. longus supinator, from the arms point above condylum externum, stretcht along radius, is inserted in its lower epiphysis's inside, fleshy. 2. brevis, from the outside of the inner knob, goes, obliquely ad medium radium, and roul'd about, straitly comprehends it; 2 muscles bend, stretch, and move

move the wrist side-way, the bender and extender of each side acting together.

1. Cubit eus intern. from the inner part of the arms inner knob, stretch'd over cubitus, is drawn out alost to the 4th wrist-bone of the first Rank.

2. Radiaus intern. of the same origine, stretch'd upon radius, is inserted in the meta-earpian bone, susteining index, these bend it: 2 outer muscles holding the same way extend it.

1. Radiaus intern. or bicornis, from the arms bony point above condylum, resting upon radius, emits a double tendon, one to os carpi, lying under radius, the other to os metacarpi sited under index. This hath its tendons included, and separated in peculiar sinews, gristly cases and sheaths; without the wrists annular ligament.

2. Cubiteus extern. from the arms outer apophyses carried along cubitus, inserts its tendon in metacarpium's 4th bone under the little

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In the palm of the hand are two notable muscles call'd palmar, 1. longus, from the infide the arms knob spreads in volume to the first joint of the singers; in its rise 'tis carnous, after it's lessen'd to a small tendon, which going above the wrists annular ligament, nor included with the other tendons, is

dila-

dilated into a nervous membrane, so firmly fixt to the skin, for subtile feeling, and firm holding, that it can hardly be tever'd from it.

Besides this, a piece of stell 4 square of a thumbs breadth, redder than the thenars, is found upon the annular ligament, sometimes simple, sometimes cut in two, resembling 2 muscles, and stretch'd and insolded with the palmar, seems to rise from thenar's Root, and to be carried to the wrists 8th bone, plac'd out of order: its office is to make the hand hollow, and so, with the thumbs muscles, and hypothenar, to form Diogenes's dish; it shall be call'd the short palmar.

The Interjunctures of the fingers are, bent, extended and mov'd fide-way: 2 mus-

cles bend 4 fingers.

1. Sublimis, from the inner part of the arms knob, about carpus produces 4 tendons, ended at the fingers 2d article, and perfora-

ted, to give way to profundus's tendons.

2. Profundus, from cubitus and radius's upper parts a little below the joint, and quadripartite, reaches to the fingers 3d article through fublimis's tendon's holes. Out of profundus's tendons, by carpus, arise 4 lumbricals firmly fixt, and carried to every fingers first joint, where they unite with the interoffeans. The fingers extendors are common and proper;

proper; those served fingers, as extensor magnus, or besides extension, cause other motions, as lumbricals and interessei join'd: these belong only to certain singers, as extensor indicis, and extensor auricularis. Magnus extensor, from the arms outer knob by carpus, is electind tendons, which end in the two lower joints

of each finger.

The fingers are mov'd fide-way, which they commonly call adduci and abduci; adduction is a drawing towards the thumb, abduction from it; this motion is perform'd by the interoffean muscles, 3 extern, 3 intern, spread in the spaces of metacarpium's bones. They rife from their upper parts nigh carpus, and in the first joint, with a very small tendon, they creep fide-way on the fingers 3 bones, to the nails Roots, where, afore and above, the tendons joining, they end; therefore interoffei acting together, ftrain the fingers stretch'd out, which figure they hold when we swim. Moreover, you shall observe two, as it were outer interoffean, spread without onmetacarpium's first and 4th Sone; one's bypothenar, proper to the little finger, and may be cut in two; it rifes from carpus's 3d and 4th bone of the 2d order, and is inferted fideway into the space between the joints of the same finger, to draw it outward; the other belongs to index, and lying beneath anthienar, rife from the inner part of the thumbs first bone, and is inserted in index's space between the joints, to draw it to the thumb; whence may be call'd abductor indieis. Besides the common extender's tendon, it hath a peculiar extensive muscle, which may be call'd indicator, which motion we use in shewing; it rifes from cubit's middle extern part, inferted in the 2d articulation by a tendon; the other tendon closes with the greater extenfor's tendon; there's a proper extensor attributed to the little finger, rifing from radius's upper part, lying between cubitus and radius; 'tis with a double tendon, planted on the little fingers out-fide, but with another tendon is mixt with the greater extenfor's tendon. Mean while you shall note the lumbrical muscles, fometimes 3, fometimes 4, seldom 5, which though infolded with profundus's tendons, and the constant opinion be they rise from them, yet Riolan thinks they rife from carpus's nervous, orbicular ligament, that it might have a firm origine.

Pollex, the thum, hath peculiar muscles; two long ones extend it, 1. from cubits upper outer side, ascends radius, and carried beyond carpus, is outerly inserted in the thumbs sirst and 2d joint, by a double or triple tendon; the other from cubits same part, but lower near carpus, ends in the thumbs 3d joint. A

muscle

muscle growing from cubits inside, and innerly carried to its first and 2d joint, bends it. 2. move it side-way. I. Thenar from carpus's inside, sub pollice, is inserted in the thumbs space between the joints, to draw it from the singers. 2. Antithenar, from the external side of metacarpium's first bone, susteining the thum, ends in its first phalanx, and draws it to index.

Thorax's proper muscles are such as specially belong to it; the common such as defigned to a certain part, yet affist it as auxiliaries; as scapula's upper ones: 5. dilate or elevate it. 3. fore, subclavius, ferratus maj. triangularis. seu pectoralis internus; one hinder, serratus superior, 5th intercostalis externus: subclavius from clavicula's inside near acromion carnous, is inferted in the first Rib nigh sternon: serratus maj. from scapula's inner basis, reaches to 6 or 7 Ribs, whereof the lower are true, 2 upper falle. Serratus pofticus superior, sited under romboides, from the spines of 3 of the necks lower vertebra, and the backs first spine, ends in 3 upper Ribs, sometime 4th. The xi extern intercostals hold the place of one muscle, carried obliquely forward from the upper Ribs lower fide, to the lower Ribs upper fide, to these dilating thorax, and diaphragma. Triangularis from sternon's middle, inner part is inserted in the lower

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lower Ribs griftles, to the 2d or 3d false Rib. 3. Muscles contract thorax, I. Sacrolumbus, from os facrum, and the loins spinous apophyfes, ends in the upper Ribs, bestowing upon each, near their Roots, a double tendon, or tendinous clasp, inward and outward; therefore ferves to depress the Ribs, and erect the spine, when 'tis inclin'd forward, and bowed. 2. The xi intern intercostals, filling the spaces between the Ribs, are reckon'd but one, 'tis carried obliquely from the lower Rib to the upper, it has fibres contrary to the extern, cross-wise intersected. 3. Serratus posticus inferior, from the spine of the backs 3d extreme vertebre, and the loins first, ends in 3 or 4 lower Ribs. This is opposite to serratus posticus superior, and both by a broad membranous aponeurofis, so grow together, that they are as a band to tye and strengthen the spines hinder muscles: others add the abdomen's 3 muscles, because to violent expiration more muscles are required.

The spine or loins are bent by 2, on each side one: 1. Quadratus, which Riolan derives from the transverse apophyses of the backs 2 lower vertebre, and last Rib, that it may, with the oblique descending, and strait ones, stir and move forward off a ilium's whole frame. Abdomen's muscles, serving for inspiration, help to bend the loins and whole spine; for depres-

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depressing thorax, they bend spina; if lying upon your buttocks, you would lift your trunk, or leap up upon your feet without help of your hands: 4 muscles extend them 2 on each fide, so intolded along spina, that we must either make as many pairs as vertebre, or only one pair of muscles bestowing tendons to all the vertebra; according to Galen, 1. Semispinatus, from a nervous origine from all os facrum's spines, ends in transversas apophyses lumborum, & totius dorfi. 2. Sacer, with a tharp carnous origine from os facrum's hinder parts, ends in Roots of the backs spiny vertebre, they are mov'd fide-way, when those of the other side, benders and extenders, act apart.

Of the muscles of the belly before.

Os ilium & facrum join'd, are mov'd backward and forward in venereal congress for generation; the bellies right and oblique defeending move it forward, thorax resting, and thighs mov'd, unless they follow off a ilium's motion. Sacer and semispinatus rising from the backs upper part, move it backward; which Riolan hath demonstrated by many Reasons and Experiments in his Anthropographia. Cremaster proper to each testicle, the obliques ascending sag end, nigh os pubis, whose slesh is redder, thinner, and as it were sever'd from the said muscles slesh, outerly infolding

folding Peritoneum's production, is carried with the feminary vessels, ad testiculum, drawing up, and suspending it. The common is dartos, a continuation of membrana carnosa suspending both testes; Women have cremaster shorter than Mens, cast upon Peritoneum's production.

The Bladders Neck, lest the urine should involuntarily flow out, is shut by a round stelly muscle revolv'd upon prostate; made broad it expels it, and by wringing prostate in venereal congress, crushes out the seed: Now the bladders neck being carnous, performs the office of an inner spincter, and exactly closes the bladder.

The Yard hath two on each fide; Erector from Ischiums's inner bunch, and stretcht to the Yards ligament, reaches laterally to the middle of its body. Accelerator rises not only from anus's sphincter, but also from ischiums's inner bunch below the Yards ligament, and with its mate spread under urethra, is drawn to the Yards middle.

The Clytoris in Women represents a Mans Yard, therefore hath obtain'd muscles alike, though not serving the same office; of which in the Womb.

Anus is that up by the round sphinter muscle, 'tis double, one cutaneous, the other broader, and more carnous, which adheres to

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a transverse ligament, plac'd between os ischium's bunchings, and coccyx end. It hath 4 levators, 2 broad, rising from os sacrum and ilium, are inserted in the larger sphinter; 2 narrow, one fore from the transverse ligament, the hinder from coccyx, and end in't. These 4 list anus bunching out, and almost falling in expelling of hard excrements; the circular shut it, less the excrements should flow involuntarily, therefore at our will we direct this excretion.

The Thigh is extended when we stand, (being perpendicularly put under ischium) by 3 muscles, which make nates; therefore called by Authors gloutii: the greatest and outmost from coccyx. os facrum's spines, more than half ilium's Rib, is inserted 4 fingers below trochanter magnus, where a certain eminence of the bone appears. The 2d and middle from os ilium's outer part, is inserted in the great and outer trochanter. The 3d and inmost from es ilium's outer, but more lower from the furface, is implanted in trochanter magnus's top: 'tis bent by 1. Pfoas, spread over the bodies of the lumbar vertebre, in the bellies hollow, from the transverse apophyses of the back's 2 lower vertebra, and carried upon ilium's inner farface, is inserted in the small trochanter. 2. Iliacus from os ilium's inner cavity, and by its tendon join'd with the

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the lumbar, ends between the great and small trochanter. 3. Pectinæus, from os pubis's upper part, is inferted below the forelide of the thighs neck: 'tis drawn inward, by triceps, which has 3 origines, and as many diffinct insertions; I head rises from Os Pubis's upper part; the other from the same Os's middle; the 3d from its lower part, and are inferted in femur's hinder line; dispos'd by courfe. This muscles action is strong and valid, drawing the thighs inward, when we climb Trees and Main-masts, and Ride: Small ones draw it outward, because this motion is not very necessary. Quadragemini, are 4 small ones by course placed on the hinder part of the thighs articulation; the first and upper longer than the rest, and Pear fashion'd; by others is called iliacus externus, rises from os sacrum's lower and outer part, the 2d rifes from es ischium's bunch; the 3d contiguous to this, rifes from the same part, and these 3 are inferted in great trochanter's cavity; these 3 included in great trochanter's cavity, serve to thrust down, or lengthen femur, when 'tis stretch'd a little beyond its natural length, which you may observe in one upon his back and body extended. They perform this action in the manner as Pter, goidens internus between the two jaws drives the lower forward. Quartus quadratus, broader and fleshier than

than the other, distant from the 3d 2 fingers breadth, from the inner part of ischium's bunch, is fixt to the great trochanter's outer part : two obturators obliquely wheel it about; internus, from the inner circumference of a hole in Os Pubis, and carried through that finus between ischium's knob and socket, by a threecleft tendon, is carried to great trochanter's cavity; its tendon folded and inclosed in the 2d and 3d quadrigumines, resembling a Purle, directs the outer wheeling. Externus, from the outer circumference of the hole in Pube, and roul'd through femur's neck, as through a Pully, is carried to great trochanter's cavity, under quartus quadrageminus, it governs the inner wheeling.

The Leg is bent by 4 hinder muscles.

I. Seminervosus, from ischium's knob, ends

in the Legs hinder and inner part.

2. Semimembranosus, from the same knob, with a nervous and membranous beginning, but broader tendon is drawn to the Legs in-

ner and hinder part.

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3. Biceps, from the same knob, and carried by femur's outer part, about its middle affunies a carnous lump, which Riolan faw separated to its head, for a 2d muscle is inferted in tibia's outward part by a tendon.

4. Vulgarly posticus gracilis, from the line which shews the closing of os ischium and

Pubis,

Pubis, and descending femur's inner part, is inserted in the Legs inner part. Riolan refers Poplitaus to the benders; lurking in the ham's hollow, above foleus's head; from femur's extern knob is obliquely inferted in the Legs hinder and upper part, which it straitly embraces: 6 muscles extend it. 1. membranosus, from os ilium's upper spine is carried to tibia's, or rather femur's fore-part, and girts in the Legs muscles, like a membranous swath, except Sutorius. This rifing from ilium's upper spine and fore-rib, and sliding obliquely by femur's infide, ends in tibiam internam, which it is faid to bring to, and place over the other, after the manner of Tailors, when they fit cross-leg'd. Rectus gracilis, from os ilium's lower spine, carried right along femur, ends in the Legs fore-part beneath Epigonatis; the two vasti border on recius gracilis on each fide : one of which, externus, from great trochanter's Root, ends in the Lega little below the Patella outerly; the other internus, from little trochanter's Root, falls in the Legs infide a little below Patella. Crureus, plac'd under the vasti, from femur's forebone between the prochanters and cleaving to the whole thigh, produces its tendon over Epigonatis ad tihiam anticam. These rectus gracilis, vasti duo, crureus nnited about the knee form a broad, strong tendon wherein Patella is infolded. As

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As the hand is divided in three parts, fothe foot into tarfus, metatarfus. and phalanx, or rows of toes; and as the carpus is moved, metacarpus unmov'd, so tarsus is movid, metatarsus unstir'd; therefore tarsus is bent. when mov'd forward, extended when backward; where note the bowings of the members in the whole foot are contrary; in the hand alike, for taking hold; in the foot contrary, for firm flanding, and performing different actions; for femur's flexion is forward. tibia's backward; the foots flexion forward, the toes backward.

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Two muscles bow Pes, or Tarsus: Tibiaus anticus, from tibia's upper Epiphysis, near fibula, cleaving to the whole Leg, about the middle of the bone degenerates to a tendon, which under the foots annular ligament is cleft in 2 tendons, one of which is inserted in the first nameless bone, the other reaches to os metatarfus's bone over the great toe. Pero. neus Antiens is join'd to Peroneus Posticus in Its rife; though both tendons are drawn through the outer ankles cleff, which in their end and insertion are separated. Anticus from Perone's middle and extern part, led through the extern ankles cleft, is inferted forward in os metatarfis, which fultains the little toe. The foot's extended by hinder muscles; the first and outmost are the twins, because

because alike in bulk, strength, action, call'd also gastrocnimii; one internal, plac'd in tibia's inner side, the other its outside; the inner twin, rifes from femur's inner condyle, the outer from its outer; disjoin'd in the beginning, at length grow into one belly, which, by a strong tendon, is carried to the heels hinder

part.

Plantaris lurking between gemeli and foleus, from femur's outer condyle, carnous upward, presently by a small longish tendon under the heel by the inner ankle bone is diffused to the sole of the foot. It performs the same office in the foot as the hand, that the foot might answer to the hand, and whillft the foot is hollowed, the skin might be firmly glutinated by the under tendons. Soleus, a broad and thick muscle, takes its origine from tibia's upper part, or from tibia and perone's upper and hinder joining, and, by a tendon mixt with gemelli, is inferted in the heels hinder part : of gemelli and solens join'd in the lower part, is made the most thick and strong common tendon, which Hippocrates call'd chorda magna whose hurts, bruises, and cuts, bring death. Two hinder muscles extend the foot: Tibiaus Posticus, from tibia's upper part, and fixt to all of it, through the inner ankle bones cleft produces 2 tendons, one ending in scapbois, the other carried to the first

first nameless bone. Peronaus posticus, from Perone's upper and hinder part, carried by a cleff of the outer ancle with anticus peronaus, to os metatarfi, susteining the great toe under the foots sole, transmits its broad, hard and grifly tendon under the tendinous head of that fleshy mass which pruduces its intern interoffeans. Peronaus anticus & pofticus, as they are distinct in their origine, so in infertion, though drawn through the outer ancles pully; but the tendon of Peroneus's other bender is outerly inserted in os metatarfi, susteining the little toe. The tendon of the other extender and hinder Peronean, is carried further innerly under Pedieus. These 2 tendons included in nerve-griftly sheaths are separated.

The Toes have their proper muscles to bend, extend, and for fide motion, whose tendons are comprehended in a round and transverse ligament, scattered below the ancles, as in the wrist, longus, or enimodactylius, from tibia's fore-inner side, where it joins fibula, hid under tibieus antic. descends strait along fibula, and paffing beyond the ring ligament. ends in the 3 joinings of the 4 toes, that it may at once extend the 3 joints of the faid 4 toes. Brevis tensor, or Pedieus, from the heel and outer part of neighbouring aftragalus, and spred under the upper, is, with its tendon

inserted in all the joints or knobs, these extend them; the tendons of these both long and short, cross one another above metatar-Im. They are bent by brevis and longus, which answer profound & Sublim. of the hand : longus flexor, or perodactyteus, from Perone's hinder upper part, and carried along the inner ancle through the heels peculiar cavity, is cleft in 4 tendons, which are drawn through the flits of the fliort toes bender's tendon, as in the hand, is inferted in 4 toes 3d joint. Brevis flexor, or pedieus intern. from the heels inner and lower part, and parted in 4, ends in the toes 2d joint; its tendons are perforated for longus flexor's tendon to pass through, they are drawn fide-way by 8 musculi interoffei, 4 inner, 4 outer, which are not dispos'd as in the hand; the outer from the metatarsi's bones spaces, the inner plac'd in the foots hollow, are spred over the bones, and are drawn from one nervous sharp beginning, nigh the heel, fixt innerly, and cleft in 4 tendons, and end in the 2d joint, whereto lumbricales cleave; therefore the outer interoffeans till metatarsus's bones spaces. Lumbricales rife not from the long toe benders tendons, as in the hand, but from a fleshy mass, which lies hid under the short toe bender, and this rifes from the heel.

The great toe bender near the toes long bender

bender fleshy, from fibula's upper part, where it joins tibia, and marching under the inner ancle, and foots fole, is inserted in the great toes first bone; and before it comes to the 2d, a little sesamoidean intervenes, and the tendon for security is intercepted by 2 greater sesamoidean officles; sometime under the foots fole 'tis tore in 2 tendons, one affifts the great toe, the other the 2d little toe; then the long toe bender is divided in 3 only. Extensor pallicis, from tibia's outside, where it gapes from fibula, and creeping along the foots surface, is inferted in the whole great toes upper part, the other ends in metatarfus's bone spred under the great toe. The great and little toe have 2 notable muscles outerly fited, which abduce them; fo that one outerly stretch'd to os metatarsi, which is plac'd under the great toe, is nam'd its abductor; the other outerly lying upon metatarfus's 5th bone, is call'd the little toes abductor, they anfwer the hands thenar and hypothenar. Befide the great toe, in the foots fole, has another transverse muscle, like antithenar, which from os metatarfi's ligament, which lies under the least or next toe, marching obliquely over the other bones, with a strong tendon, ends below in the great toes first joint; this is opposite to abductor, to draw back the great toe.

Now of the veins, arteries, and nerves of The the limbs.

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The veins of the Arm begin ab axillis, in the Leg ab inguine. Axillaris, nigh axilla, produces cephalica, it runs without an artery along radius, then emits thoracica, which, expanded over the chefts outer parts, meets small twigs of azygos; after 'tis call'd Bafilica, and at the cubit's cleft in 2 branches; one creeps along the inner cubits length, the outer under the skin descends to the hand; the inner branch is call'd mediana, and receives a branch of cephalica, below the cubits bending; where 'tis call'd either cephalic, or bafilic; cephalica stretch'd upon radius, nigh carpus, turns to metacarpus, to water the hollow of the hand. Between the ring and little finger in metacarpio's plac'd salvatella, between the thumb and fore-finger pollex. Mediana's wholly extern, and fubcutaneously runs ad palmam. Basilica creeps along cubits inner and outer parts, by a two headed branch; the veins of the limbs communicate with the Arteries.

For the Arteries, ramus superclavius, going ad axillas, is call'd axillaris, accompanying vena basilic. where there's no cephalic artery: nigh axillæ it produces thoracica, and in its progress bestows twigs to nigh parts, and stretched to cubits bending, is cleft in 2 branches, carried to the inner hand; the other branch stretch'd upon radius's inside, is felt

in the wrist; the other, running strait to ulna, with its fellow, is spred upon the hand, the thumb and little singers length, bestowing

branches on every finger.

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For the Nerves, out of holes of 4 lower neck vertebre, and the backs 2 first, 5 or 6 Nerves spring, which, drown'd in scalenus, are brought under clavicula to axilla; where they are folded like a Cardinals hat strings. After the 4 upper, under deltoides, are sprinkled on the inner part accompanying bafilica. and the arms artery, creeping between biceps and brachieus externus. The 5th and 6th Nerve, bent back under scapula's rotundus major, are diffeminated on the heads hinder muscles, then the 4 describ'd which carried by the arm and cubit, are dispers'd to the cubit and hand. Is. Nervus below the shoulders. head, is drown'd in coracoideus, and drawn under biceps infide, and lurking under its tendons, joins vena cephalic, where it grows small; and is spread under it, below cubits bending. 2s Nervus. undivided, and thicker, descends to cubits bending, where 'tis under arteria and ven. bafil. but 4 fingers beneath the bending, always stretch'd over basil. it runs undivided to carpus, where the vein is higher; in carpo 'tis cleft in 10 small twigs, giving to each finger 2 scions creeping side-way; below cubits bending 3 fingers breadth, 'tis cover'd

cover'd by carpus and cubitus bending muscles, which rife from the arms inner bunch. The 3d is led undivided to ancona, where carried by a cleff between olecranum and condylum intern. brachii, all cubits length, and fpred over cubiteus intern. 'tis carried to carpus toward the little finger; therefore by leaning on the elbow, the whole arm's benum'd; near the hand cleft in 4 branches, 'tis spred over the hands outlide. The 4th thickest infolded with veins and arteries, and funk in brachieus extern is led from the arms forepart to its hinder, and, descending by it to radius all along, join'd to cephalica, and lies hid in carpus.

For the lower limbs veffels, cruralis vena produces in inguine a famous branch, 1. Saphena, which defeends the ham along sutorius; below in sura making poplitea, which was open'd anciently; there it transmits a branch, returning upward above the ham to the crural veins; or from these crural, suphena receives that twig; then eleft in two, it flides to both outer ancles, but the greater part runs to the inner, where it forms the true sa-

phena.

When the crural hath produc'd saphena, 'tis presently divided in 4 branches, 2 outer, lateral and shorter are scatter'd on the thighs upper muscles both inner, i. biceps, and outer,

outer, i. vafti and crureus. The 3d branch penetrating the inner parts, is call'd ischiadiius; the 4th mufcularis. These branches being produc'd, crural's trunk spilt in 2, defeends to the knee, environ'd with the crural artery cleft in : but the one goes high, watering the outer parts, the other's deeper; both fend twigs to the neighbour parts, and when they come to the ham drawn between folens and gemelli, descend to both ancles. But the outer ancle is principally bedew'd by the deeper crural; yet so, as in the ancles compass occur 2 notable veins. That which refts upon the inner ancle, is a branch of faphena; that which runs below it spred over tarfus, is crural's iffue. The crural arteries distribution is unlike the veins; for it produces no saphena: For a little helow inguen, it transmits 2 between triceps muscle, which reach as far as gloutiis then it emits 2 to femur's fore-parts, then undivided descends to the ham, where 'tis cut in 2 branches; one creeps along tibia's outer part above peroneus; the other thrust into foleus, and fliding to pterna, is plac'd in the foots fole, and the other is scatter'd on the foots out side.

Femur's fore-parts Nerves are 2, distinct in their rise, but presently joining, make one cord, carried undivided ad inguen; where 'tis commonly parted in 5 twigs, inclos'd in a

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membrane; which disperst up and down, are fpred on femur's fore-parts muscles, even to patella; their rife is in the loins 3 lower vertebre, nor does it appear till you tear pfeas, in which they lurk. A great and very thick Nerve in its rife, creeps along femur's hinder part, made of 3, and oftner 4 portions, which are bred out of 3 or 4 os facrum's upper holes, and carried through os ischium's hole, between the same os ilium's spine, by femur's inner and hinder muscles undivided, sometime double and folitary without the company of vein and artery, as is usual in other Nerves of the body, is carried to the ham; where cleft in 2, fometimes 4, it bestows small twigs, according to its bulk, on the nigh parts; the other branch descends by sura to the heel, bestowing little Nerves by the by, and drawn through the inner ancles cleft, is distributed on the foots fole into as many branches as fingers. Another is carried to the foots forepart stretcht to perone, and slides to the outer ancle, and when 'tis come there, 'tis fcatter'd on the foots upper part, as was faid of the other.

This Nerve is not mixt with the other as in the arm, but is carried behind femur, because the arms joint is farther from the necks vertebræ, than femur's is from the loins vertebræ and os sacrum. Gal. c. 8. l. 16. de usu part.

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About the great Nerves beginning is another join'd, leaping from os facrum's third hole, and carried above its spine; cut into branches, is diffus'd on gloutii, and tibia's benders, even to the ham.

Of the BONES.

Hippocrates and Galen teach to begin the Study of Anatomy with the Doctrine of the Bones, therefore the Student ought first to be instructed in the knowledge of the Bones, before he come to Anatomical Inspection of the whole Body: else he will be but half-sighted, in noting the original and insertion of the muscles, and cleaving of other parts to bony conceptacles.

* A Bone is a fimilar part, most cold and dry, form'd of the thick and fat sub-stance of the seed by heat, for the form and

fettlement of the whole body.

The Bones are knit together per articulum and symphism: Articulus is twofold Diarthrosis, & synarthrosis, that hath evident mo is on, this obscure, or none; therefore, the difference of each is equal, but this is call'd enarthrosis diarthrosis; that enarthrosis synarthrosis is when a large and long head goes into an ample cavity, which seeing is con mon to diarthrosis and synarthrosis, see

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an exampleof both. Enarthrofis diarthrofis, is evident in ischiums joint; the other is obscure in the ancles articulation with scapbois. Arthrodia is perform'd, when a depress'd and plain head, is receiv'd by a light and superficial cavity: an example of arthrodia diarthrodes, is the joining humerus with scapula; of arthrodia Synarthrodes, is carpi cum metacarpo. Ginglymos is a mutual ingress of bones; as in binges of dores, &c. ginglymos diarthrod. is bumeri cum cubito; ginglymos synarthrodes talicum calce. Ginglymos is 1. simple, made of two bones join'd by one, and a simple articulation in the same part, as in the juncture of elbow and arm: 2. compound, confifts of a double. one, perform'd in the same ends, or in distant places, of 2 or 3 bones; which made by a double articulation, is finisht in the same ends: 'tis seen in the necks vertebre: a compound by a double article, in distant ends of 2 bones, is feen in cubitus and radius, of 3 bones in the loins and backs vertebræ. Beside, synarthrosis contains under it 1. Harmonia, is a conjun-Aion of bones by simple contact without mutual ingress of ends; distinguishe by a right, oblique, or winding line. 2. Sutura is a joining of bones, like thrusting the teeth of 2 laws or combs within one another, 3. Gomph fis, is when one bone is fixt firm in another.

Symphysie, opposite to articulation, is an immoveable conjunction of bones; as if those were united which Nature brings forth divided, and in process of time grow together: therefore some are united without any discernable medium, others with one interpos'd; whence arise 3 simple differences of simphysis, systarcesis, syneurosis, synchondrosis; only one mixt i. by a nerve and cartilage, which Galen calls neurochondrodis.

Many bones make the feull, their partings are call'd futures; some, I. true and proper, which diffinguish the bones of the scull from the upper jaws, which are like the conjuctions of two faws or combs intertexed, 1. Coronalis, going to both temples. 2. Lambdoid opposite plac'd in occipite. 3. Sagittal, from lambdoid"s top the sculls length, and sometimes to the nofe top joins both. 2. False join the temple bones to the heads top : com non 1. Frontal. from the eyes outer corner passes by orbis middle, even to supercilium, keeping the same way by the other orbit, ends in the lesser corner, parts os frontale from the lower jaw. 3. Sphenoid, circumscribes os Sphenois, beginning at the middle part of the heads. erown, ends in the jaws outer teeth. 3. Ethmoid compasses os ethmois, is liker barmonia than Sutura.

The bones are 1. os frontis, distinguishe by

the first common, and coronal suture, it includes 2 cavities deriv'd to the nostrils; 2d, 3d. are call'd finciput, separated above by the fagittal, below by the scaly false future; before by coronal, behind by lambdois. The temples are under these, scaly upward, downward hard and rough, call'd petrofa. In this part, note 4 apophyses, mastoid, styloid, zygomatic, 4th in the sculls inner basis, and may be call'd auricular, in this are contein'd the ears 3 cavities : 1. Porus auditorious, outer. 2. Concha, comprehends the inner air, and 3 officles, malleolus, incus, stapes, and a hole passing to maftoid's hole. This hole's end opposite to the drum, hath 2 holes boar'd in't; the greater called the oval window, the ingress to the third cavity. 1: Labyrinthus, from its various turnings, returning to the same cross-way; the other narrower, is the entrance to the fourth cavity. 1. Cochlea, from its rough and writh'd figure: the 6th bone's call'd lambdoides, and separated by the lambdoid suture: the 7th sphenois, its inner table swells with 3 apophyfer, call'd clinoides, one hinder 2 fore, reaching to the optic nerves rife : the cavity between these is call'd sella sphenoides; its outer table hath 4 apophyses, 2 hollow like a thip, call'd navicularis, pterygoides by Galen; the other go to the temples, temporals: the 8th ethinoides, by Galen spongides, consists of feven

feven several portions: 1. the table board like a fieve, from which rises an apophyses within the scull, the 2d portion, call'd crista galli; without the nostrils from the same table depends the bony plate severing the nostrils, called septum narium, and is the 3d portion: to this stick 2 spongy bones, which make 4th and 5th. part; the 6th and 7th portion is a thin, plain, smooth, like a thumbs breadth; it makes each orbits inner side nigh the great canthus; below it covers 3, sometimes 4 cells, reaching from the great canthus, to the inmost orbit.

The upper jaw hath 5 bones on each fide, one without a fellow suffeins the palats midle, i. Galen calls melon: it may be call'd zigomaticum, from making zigoma's greatest part, the eyes less corner, and great part of orbit : now zygoma's a bony semicircle made of 2 apophyfer join'd in the middle by the oblique future; one proceeds from petrofa, the other's part of the cheek bone. 2. Os unguis, officulum lacrymale, os agylopis tests in majori cantho. 3. Os maximum, makes the teeths middle part, compleats the lower orbit, and the nofes inner part: 4th forms the nose; so 4 bones form the nose, 2 proper mention'd last, 2 common, part of the maxillary; late Authors add a bone between Sphenois and palatum, not unknown to Hippocrates, call'd Vomer, reaching the inner noffrils,

nostrils, susteins the nofes bridge, to which

'tis join'd by suture, or harmony.

The orbitary bones are not proper, except the ungular, but portions of the scull and upper jaw. I. Frontal, makes its vault. 2. Part of Sphenois fited in orbis deep outer side ad canthum min. 3. zygomatieum makes canthus min. and the orbits pavement. 4. maxillare. 5. lacrymale. 6, Os ethmois scaly table, makes orbits other side ad maj. canthum; these bones are discern'd within the orbit, with their proper and common futures.

The lower jaw in adults is one bone, in which its basis and its ends are noted; basis middle part, hollow within, bunching without, is call'd the chin; its ends are call'd corners, each horny end fends out 2 apophyfes, one sharp, call'd corone, receives muscul. temporalis tendon; the other emdylodis, it may be call'd articulatoria, for ferving to the jaws conjunction. Below thefe is a noted inner hole, by which veffels are scatter'd to the teeth; part of which goes by the chin, by a narrower and outer hole, disperst to the lips mufcles.

The teeths basis is that part without the gums, their root's within, hollow to receive a small vein, artery and nerve; their root is various in number and figure; that of the cutters simple and streit, distinguisht by a deft

for firmer sticking: so is, the dog teeth, in the upper grinders 'tis triple and crooked, because they hang down; in the lower double, and sometimes triple: their number in sull age is distributed in 3 orders, as to site and bigness; the first 4 are call'd cutters; on each side one join'd next, dog teeth; the rest 8, or 10. grinders; they are plac'd in by gompho-

fis.

The trunk, the sceleton's 2d part, comprehends the spine, and bones adhering, 'tis made of spina, and thorax; spina or rachis is a bony pipe, the spinal marrows conceptacle, reaches from caput to coccyx; it confifts of many bones, for fecurity and action of bowing, &c. cail'd vertebræ; in each note two parts: 1. inner thick, round, call'd corpus; the other outer, swelling with diverse apophyses, wants a name; of the apophyses are 3 differences : 1. streit, oblique, transverse, the hinder's sharp, call'd spina; the lateral and transverse is double, the oblique fourfold, by which the vertebre are join'd by a compound gynglymum, whereto 3 bones are requir'd; of the oblique apophyses two bend upward, two downward; fo all the vertebræ swell with, 7 apophyses. The whole rachis is parted in 4, neck, back, loins, os facrum; the neck hath 7 vertebra, back 12. loins 5, os facrum is one, or 3. in adults.

In the necks vertebræ, all the transverse apophyses are perforated, to give way to the ascending cervical veins and arteries, hollow in the ends to convey the soft nerve; the sharp are horned, for the rise and insertion of muscles; but the upper 2 have another structure for the heads motion; for the sirst wants a spine, and a thick round body; the 2d emits an odontoid apophysis; all the necks vertebræ are strictly and intricately join'd, lest they should slip asunder in the necks vehement motion.

The backs vertebræ are alike, their apophyfes solid, and continued without any hole: the 12th or 11th vertebræs articulation differs from the rest, these cohere by ginglymus, they by arthrodia; so the motion of the whole spine, i. slexion, extension, obliquation is perform'd upon that vertebræ.

The loins 5 verteb. apophyses differ from the backs, for the hinder, or spine, descend not as the backs, are streit and broad; the transverse are longer, standing instead of Ribs.

Os facrum is under the loins, and feems one fimple bone, yet boil'd long in oil, it divides in 5 or 6 parts, to its end's join'd a three, feldom four cleft, or cartilaginous bone, call'd coccyx, we the crupper bone.

Thorax cum spina make the sceleton's trunk; thorax is made of 4 kind of bones; sternon

before;

before; the Ribs o' the fide; clavicula o' top the back behind; sternon in adults is a continued bone, distinct by 3 or 4 transverse lines, the footsteps of ancient divisions; more conspicuous inner, than outerly; on this bone's end depends the xyphoid griffle, representing a shield in brutes. xii Ribs on each side; 7 upper call'd true, because join'd to sternon; the 5 lower false, because not join'd it; but to a griffle to give way to tumors of the liver and fpleen, and yield to diaphragma's motions. The clavicles are on each fide one, in figure like an Italian S. join'd between acromium and sternon, they keep seapula in its fite, left it fall upon the breaft.

In Omoplata many parts come to be noted, very requifite to the rife and infertion of the muscles; part of it firetch'd along the back, is call'd basis, whose ends are call'd angles, one upper, the other lower. Basis sides are call'd Ribs, of which the shorter, thinner's call'd the upper; the longer & thicker, the lower; its whole trapefian breadth's call'd mensa, whose outer part is gibbous, inner hollow, to receive a muscle. A famous process or apophysis ascending upwards from its basis, is called spina, whose broad end is called acromion, which, according to Hippocrates and Galen, is a diffinct bone, griffly in children, in adults bony, which after 20, and fooner, is chang'd

chang'd to an apophysis, glued to Spina. Fosfula stretcht on each side Spina, is call'd interscapulium; one upper, the other lower; but spina's middle bunch call'd pterygyum vulgarly; scapula's other great end, under acromion, and opposite to basis, is call'd cervix; in it note apophysis coracoides, made for security and firmness of the shoulders joint: the necks ca-

vity's glenoides.

Manus depends upon scapula, divided into 3 parts, bumerus, cubitus, and extrema manus; in humere note 2 ends, for insertion of muscles; the upper, call'd Caput, which a membranous ligament from glenois mouths cavity compasses, besides the aponeuroses of 4 muscles wherewith 'tis involv'd; a little below Caput, the orbicular narrowness is call'd the neck. In the head is engraven a longish chink, by which biceps nervous head is drawn; in the arms other ends the trochles, about which the cubit's turn'd; about trochlea are 2 cavities, the inner ampler than the outer; in these are receiv'd the cubits appphyses, call'd corone; 2 o'th' arms apophyses are join'd to trochlea, call'd condyli, one lower, inner, the other higher and outer.

Cubitus is made of 2 bones, one higher, shorter, call'd radius; the other lower, greater, under the former, keeps the name of the whole, atd is called eubitus, by some ulna: 2

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bones were necessary here, because of the double and contrary motions, which could not be perform'd by one bone join'd by ginglymos; for that fuffers only flexion and extension, not inversion, which radius join'd by artbrodia performs. Radius's obliquation cannot be perfectly discern'd, unless in a new carcass, all the muscles remov'd: for then, with great admiration, you'll see radius turned upward and downward upon cubits being firm; and also mov'd with cubitus, when bent and extended. In cubitus ends is something worth note; for in the upper end is the figmoid cavity, which embraces the arms trochlea; about this 2 coronal apophyses, the lower's call'd olecranon; in the lower part cubitus emits the styloid apophyse; these bones are join'd together in their ends, by that ginglymus made of 2 bones, going in one another in distant places.

Extrema manus is divided in three parts, carpus, metacarpus, and phalanx digitorum, because they soem to stand in battel array.

Carpus is made of 8 bones distributed in 2 orders, join'd among themselves by symphysis, and, its species. barmonia; therefore carpus's bones are mov'd among themselves obscurely, or not at all; the first order with the lower cubit makes arthrodia diarthrosis; the same order's knit with the 2d order of carpus's bones

bones by arthrodia; which 2d order is join'd with metacarpus by arthrodia syndribrosis, therefore this joint's motion is either none at all, or insensible, but the first order with the

2d is mov'd obscurely.

Metacarpus is made of 5 bones, if with Riolanus we add the thumbs first bone, which others reject; because obliquely added to metacarpus, and manifestly moves, against the nature of metacarpus's other bones, which with carpus make arthrodia, with the fingers enarthrosis; yet metacarpus's 4th bone susteining the Ring singer, moves manifestly. From each bone of metacarpus is each singer directly reach'd out, pollex excepted: the singers consist of 3 bones join'd by ginglymas, so are only bent and extended; their oblique and lateral motion depends on the first bones enarthrosis cum metacarpis.

The greatest bones of the body which join'd with os facrum, sustein and erect the trunk, are call'd ossa ilium; in adults continued, in children tripartite, and retein the ancient names, though the sootsteps of divisions are obliterated: the bones broader part making almost its whole breadth, and reaching ad medium acetabulum, is call'd os ilium; the upper half of the other part is call'd os pubis, the lower ischium: of these 3 parts

the great bafin is form'd.

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In these bones some particulars are to be noted; Anatomists call os ilium's external sace Dorsum, the upper, inner, hollow, venter; the end costa, inner, and outer brims, call'd lips, or brows; so as one's inner, the other outer; its bunchy end join'd to os sacrum the binder spine; its other end towards acetabulum, the fore upper spine; under this is another, call'd the fore lower spine. In os pubis's a spine near symphysis, by its joining a top with its other sellow: in os ischium's a spine and

bunch, the tubercle's call'd condylus.

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The feet, as the hands, are divided in 3 parts, the thigh, leg, and foot; the thigh bone is the greatest of the whole body : now its ends, in the upper is caput, round, under which is a slender part call'd cervix; from which are 2 apophyses produc'd, to which mulculi rotatores are tixt, therefore call'd trochanters; the fore's call'd minor trochanter, the upper lateral, major trochanter. The thigh's other end is parted by 2 condyli, the middle cavity being left, which admits the legs middle and bunchy apophyses, and vicissim femur's condyls are received by the legs cavities, by a loose ginglymos: this articulation's fore-part is call' genu, the hinder poples. Patella, a small bone spred over, and cleaving to no bone by article, fixes and strengthens this articulation.

The

The leg is compos'd of 2 bones, the greater and inner is call'd tibia, the lesser and outer fibula: tibia is articulated to femur by ginglymes; fibula sticks to tibia, not touching femur. Sura and tibia's lowest and bunchy parts are call'd maleuli, tibia makes the inner,

fibula the outer ancle.

Pes is divided in tarfus, metatarfus, and toes; tarfus's made of 7 bones: the first join'd to tibia's call'd oftragalus, or talus; that under this pterna, 3d join'd to astragalus, scaphoides, 4th to which is join'd the heels lower and fore-part cuboides; the other 3 have no names, or calcoidea. Metatarsus is form'd of 5 bones, answering manus metacarpio. Digiti confift of 3 bones, except the greater, which have only 2; certain officles till and strengthen the interjunctures of manus and pedis digiti, chiefly in adulrs; of uncertain number call'd Sesamoidea. In the great toes 2d article, are 2 officles worth note, and big enough; always found in all cacaffes, and are to be added in fabricating.

Thus have I given thee a short Anatomical Treatise, where I have, as nigh as possible, kept to the doctrine of the Ancients, after the manner of my ever honoured Master, Dr. Riolan, whose Enchiridion Anatomicum I have Euchiridioniz'd, if I may so say, for thee.

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If thou ask why so? I answer, first, I know not a better the world yet hath produc'd for young Students; and himself is ttil'd, by our English Hippocrates Dr. Harvy, Corypheus Anatomicorum; and is said by Dr. Primrose, to have perfected Anatomy; lastly, in his last Edition of his Anthropographia, he disowns all his other Anatomical Treatises, except his Enchiridion. Secondly, I did it to free so great a Person from a many Errors, committed by a Translator into English.

Courteous Reader, what thou find'st either literel or more material, be pleased to correct and pardon: For bumanum est errare.

FINIS.

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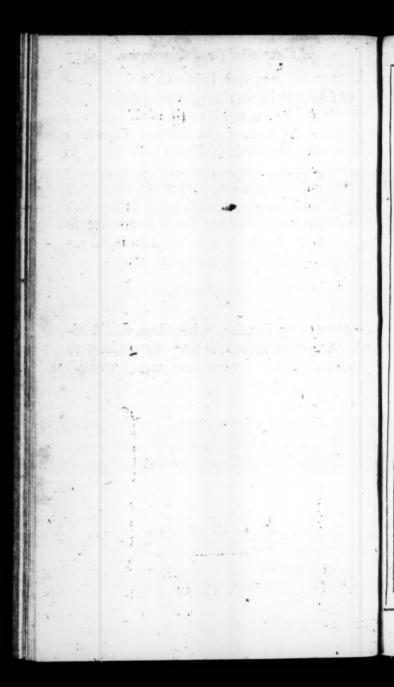
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Chirurgus Methodicus;

OR, THE

Young Chirurgion's CONDUCTOR

THROUGH

The Labyrinth of the most

DIFFICULT CURES

Occurring in his whole Art;

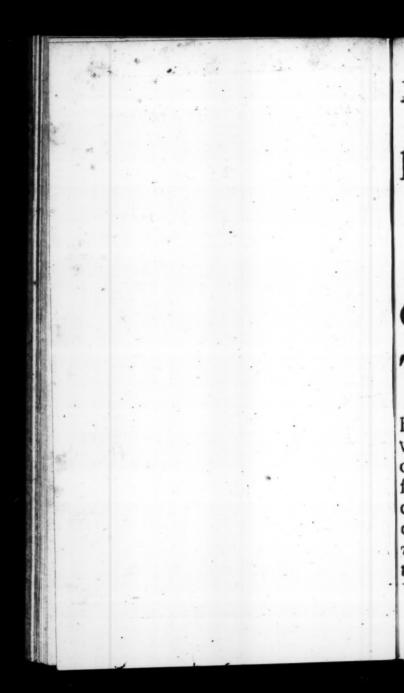
And whereby he is distinguished from Empiricks & Quack-salvers.

Being a SUPPLEMENT to Brugis's Vade Mecum.

By E. Pratt, M. D.

LONDON,

Printed for T. Sambridge, at the three Flower de-luces in Little Britain. 1689.



THE

PREFACE

TOTHE

Young Artist

IN

CHIRURGERY.

be call'd a Commentary upon the third and fourth
Books of Galen's Method of Physic,
which treat, principally, of the cure
of Ulcers; but if the young Artist
shall be ingenious he'll find it to be
calculated, as well for the cure of
other diseases that belong to his Art,
viz. Wounds, Tumors, &c. Now Galen,
the Prince of Physitians, next to
A Hippocrates

The Preface

Hippocrates, having, in his first and fecond Books of his Method, fummarily declar'd; that in the cure of difeases the Physitian ought to proceed by Method and Indication; bravely disputing against the Empyrics of his time; and all fuch as cure by adventure: In his third Book he shews particularly by what fort of Indications the faid Method is guided. Wherein he disputes learnedly against that Sect which are call'd Methodists, or Thessalians; who, in the cure of all diseases, follow'd but one Universal Indication which they took from the Essence of the disease. Whom to confute he frames Examples from the Method of curing Ulcers: Wherein, according to their diversity, he clearly demonstrates that the Artist hath need to observe divers Indications: And so thereby confuting the Empyrical and Methodical Sects; he frimely establishes the Dogmatical practife of Physic. And

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And this is all I thought I need to premise; only desiring the young Artists to be studious; that thereby they may come to be famous; and do good in their generation. And that thou may'st so be, and not spend thy time a miss, as our famous Dr. Read faid, that if any had a mind to mifpend good hours let them read Paracelsus's Chirurgery: I shall recommend these few Authors following to be read by thee. First then if thou understandest not the Latine tongue, thou mayst procure to thy self, the works of our famous Dr. Read, late ly completed and perfected by an ingenious London Phyfitian; or Cook's Marrow of Chirurgery, the last Edition in Quarto, or the voluminous Book of Ambrose Parey; Mr. Wiseman's Observations are ingenious: Then for Latine Authors Hieronimus Fabricius ab Aquapendente, Scultetus, Tagautius and Riolanus

The Preface

lanus may be sufficient; by reading which Authors thou wilt fee how great Art is requir'd in the cure of Wounds, Ulcers, &c. more than Empyrics, Quacks, and your old women in the Country, are sensible of; or can comprehend; as first 'tis to be enquir'd whether an Ulcer, for Example, be fimple, corroding, fordid, &c. then the variety of remedies and circumstances, renders the Art, fallible incertain and conjectural. which cannot be known but from the writings of learned Physitians and Chirurgions; for Galen tells us, in his Method, that remedies are to be varyed, according to the difference of perfons, parts affected, &c. for in some cases a deterging Medicine will prove suppurating; as Thus; and in others the same is only Sarcotic: And the same Gaten gives us an Example, of a Chirurgion, who when he faw great putre-faction in an Ulcer, dayly apto the young Artist.

ply'd stronger detergents, as Ærugo; and so the putrefaction grew greater, because the remedy was too strong. So an Ulcer in the thigh requires another remedy than in the breft, or other part, by reason of difference of parts: so that you see all the differences and causes of Ulcers, &c. are to be perfectly understood; also the right Method and use of suppurating, deterging, farcotic, and epulotic Medicines; and the reason of varying of them, according to the Nature of the Persons and Parts, Ages, Temperaments, and other circumstances: All which are acquir'd only by diligent labor and study; so that it is but a Vulgar error to think that these illiterate people can understand, or do any thing considerable, in this worthy Art of Chirurgery; but only at Adventure : For all they pretend to fo much skill by their Hyperbolical and Romontic

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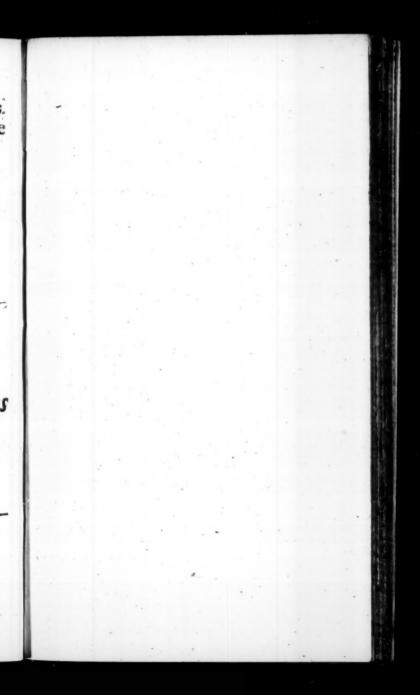
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The Preface &c.

Romantic promises, and pretences. And now it is time to bid thee Adieu.

Chirurgus



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Chirurgus Methodicus;

OR, THE

Young Chyrurgion's CONDUCTOR

THROUGH

The Labyrinth of the most Difficult cures occurring in his whole Art; and whereby he is distinguished from Empyrics, and Quack-Salvers.

CHAP. I.

Of the Several Sects of Chirurgions.

Efore we begin to Treat more fully concerning the explication, of the Nature and Excellency of Method, and its Indications, &c. you are to understand, that in the Art of Physick, and by Consequence in Chirur-B 2 gery

gery, which is subordinate to Physick, there are three sorts of Sees, whereof Galen makes mention in his Method.

Now a Sett is a Collection of Men, which are of the same Opinion; but different from others, and those in Physick are Methodical, Empyrical, and Dogmatical, or

Rational.

The Methodical, are so call'd, because they use but sew Rules, and Precepts; the which they judge sufficient: Wherefore they say that the life of man is long, and the Art of Physick short, and blame the admirable Hippocrates for writing to the

contrary in the first of his Aphorisms.

These say that there are but three sorts of Diseases, to which the Body of man can be subject to: The sirst, by astriction of Atoms, or unseparable Substances; whereof the Body of man, (according to their opinion) is compos'd. The second, by Relaxation of those Atoms; and the third is compounded of both: in such fort as some Atoms, are relax'd, and some compacted more than either the nature of the Body, or the part requires. Now that you may the better be able to understand the nature of this Sect, you must know that it had it's Original from the Philosophy of Democritus and

and Leucippus, who were perfuaded, by fome apparent Reasons, that the Elements and Principles of all natural things were very fmall, infeparable fubstances, which they call'd Atoms, which had neither first, nor fecond, nor other qualities; but according t) their several situation, and positions, all qualities had their Original; fo when any hot thing became cold, that was because the Atoms, whereof it was compos'd, were alter'd and transported: Upon which foundation the Methodics conflituting their Art, they fay that these Atoms, are the Principles, and Elements of the Body of Man; and that the health is in it's Effence and Perfection, when the faid Atoms are in a certain and measur'd distance and polition, the which if it was alter'd by Approximation, or unmeasured distance, then succeeded two forts of Diseases, and the third, of the faid two being mixt, wherein is a relaxation of fome Atoms, and a Constriction of others. According to this theory they founded their Universal Method, upon three Principles, which they call'd Communities; which were deduced from the general Principle of all the Art of Phylick, which is, That every thing is Cured by it's contrary: The first of these is, that a Dif-B 3 cafe.

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ritus and case proceeding from Astriction of the Atoms, requires relaxation: The fecond is, that a Disease caused from the relaxation of Atoms, requires Aftriction: And the third is compos'd of both: then making many other particular Communities, whereof Galen makes mention often in his Method; as that a fimple Ulcer requires Union, an hollow one repletion, and an Ulcer with excrescence of flesh demands it's Consumption, and fo of the rest. Now these Communities, though they are the first Judications, yet they are not a part of Surgery, or but a very little one; because they are known to the very Vulgar, of which more hereafter. Wherefore this Sect is often reprov'd by Galen the Prince of Phylicians, next to Hippocrates, in the third book of his Method.

Themison began this Sect; of whom Juvenal speaking of old Age, says it brings with it, as many Diseases, Quot Themison agros autumno occiderit uno. Thessalus Trallianus compleated it: After whom were Dionyfius, Antipater, Aphrodifeus, Ephefius, now of this Sect there are but few now a days.

The fecond Sect is call'd Empyrical, which took it's Name from experiments, because your Empyrics contemn all Reason, saying, that the Nature of Humane bodies and medicines s,

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are inscrutable and incomprehensible by Humane reason; which they say evidently appears, because the most famous and excellentPhilosophers and Physitians, that ever were, after great labour, and most diligent inquisitions, could not comprehend what the body of man was compos'd of, nor other things produced by Nature. For if their Reasons, who fay, that the body of Man is made of the four Elements, be well weigh'd, they may be found probable, 'tis true; but they will not be found to be necessary and inrefragable. And so the Opinion of Democritus, and Asclepiades is probable; who tell us that all things confifting by nature, are composed of an infinite number of Atoms, of the like Nature, Name, and Reason. From this controversy and contrarity of opinions, between fuch excellent Philosophers as Hippocrates and Asclepiades, concerning the first structure and composition of Humane bodies, the Empyrics conclude; that he would be accounted but a rash Person, that should dare to undertake to be Judge of the truth of their judgments. Wherefore, according to their judgment, fince it is so that our Nature is unknown, it is better to follow and observe Experiments; and to build the Art of Phylick upon things known by our Experience; mif-B 4 priling prising the Knowledge given us by reason of the Elements, the Temperaments, &c. or from Diseases, and their Causes, and Remedies.

The Empyrics then constituted their Art of four things; of Nature, Fortune, Revelation,

and Imitation.

As to the first, The Empyric seeing a man taken with a vehement. Fever, towards the removing of which he ordered no remedy: and yet it terminated by a bleeding at the Nose, or some other part; which proceeded from the strength and providence of Nature; than he judges and referves in his Memory, that to a man taken with fuch a like Fever, Phlebotomie by Art, must needs be necessary, or at least conducible. In like manner the Empyric, takes part of his Theorems from the observation which he makes of the Nature of Erute Beasts; as when from the Imitation of the Stork, he makes use of Clysters. Also when he useth certain Medicines, which he hath known to be profitable against Venome; the use of which he was shewn by Beasts.

Then for the second, If any one being troubled with a pain in the hinder part of his head, by Fartune fell upon some stone which caused a Flux of blood from the forehead Vein; by which his pain was appeared,

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then the Empyric, being taught this by Fortune, deduces a Theorem of his Art, that Phlebotomy in the Vena Frontis, is profitable for a pain in the hinder part of the head: and if you shall tell him that Hippocrates hath made an Aphorism concerning the same; he will answer you, that Hippocrates had the knowledge thereof, not by Reason, but by Experience alone.

Concerning the third, That which they knew from the Revelation of their Gods, or their Masters, or from Dreams, (which Galen did not always contemn in the Cure of Diseases,) was a Rule to them, chiesly when they had submitted it to the Touch-stone of Experience, which they had sound conformable to them.

For the last, the Empyrics make mutation and imitation from the similitude of one disease to another, of one part to another, of one remedy to another, from some likeness inducing them thereto: The which we see done often; as when they learn'd the use of Ung, Sarracenicum, in the Cure of the Venereal disease, which was first invented for the Cure of the Itch, Sc. a long time before the said disease was so common: and we do so likewise, when in malignat Ulcers of the said disease, in the Fauces, we open the veins under the Tongue

after having open'd the cephalic, which hath been found to be profitable, as in Angina.

All which may be exemplify'd in feveral particular Cases which I omit, to shun multiplication of words without necessity. This Empyrical Sect, misprised the Anatomical Art of Humane Bodies; as their Brethren the Empyrical Chymists do at this day, against the opinion of the Dogmatics, as a thing execrable and cruel, which hath always been (according to what shall in the next place be prov'd by the Dogmatics) of grand efficacy in the Cure of diseases, and for several other Reasons brought by Galen, de usu partium, 1.17.c.2. and alleged by Authors in Chirurgery.

The chief of the Empyrics were Acron Agrigentinus, from Pliny, 1. 29. c. 1. Philinus Cous, whom Serapio follow'd as Celfus fays; Apollonius, Father and Son, Glaucius, Menodotus, Sextus Heraclides, &c. but Crito, Philistrio and Serapio, were after, as in Lib. Introductor.

The third Sect, is that of the Dogmatics; these enquire by Judgment and Reason, into the first Composition and true Elements of Humane bodies, besides the similar Parts which are the fenfible, but not the true Elements of the faid Eody; into the Temperaments proceeding from the diversity of mixion of the Elements, into the faculties proceeding from the

faid temperaments and their operations; into the Nature of diseases; their Causes, and Symptoms depending upon them, and by which they are Then they make enquiry into the known. Nature of Simples; and the manner of compounding them by Art; the fit time and right use of them, which are things that require a long time; and the which to comprehend, the life of one man alone would not be sufficient, if it be compar'd with the invention of them; wherefore Hippocrates faid most rationally, that Man's life is short, and the Art of Phyfick long; the which is not to be understood in a strict Sense as many do. For he does not mean, that a man cannot, with help of the Labors of the Ancient Philosophers, and Phylitians comprehend the Art of Phylic: but that he cannot, by reason of the shortness of his life, invent it and acquire it compleatly without help.

And now, although reason for the most part, be the director of this Dogmatical Sect, and the Dogmatics; yet if they know by experience, some Medicament, of the effect and virtue whereof no Reason can be given, (as are those which operate by an occult quality) they do not reject the use thereof, but accomodate it to their Art, to render it thereby the more rich, and abounding in remedies,

and thereby the more easily to attain to the pretended end of their Art; which is health.

The Prince of this Sect, as the most excellent was Hippocrates the Oracle of Phylic, then Erasifratus, Diocles, Herophilus, and divers other great Philosophers, well exercised in Natural Philosophy: the chief of which and most praise worthy of all, next to Hippocrates, was Galen, who with his most learned Commentaries hath explicated Hippocrates, diftinguishing things that before were confus'd, and fupplying what was wanting, fo that he may defervedly be called the fecond Prince of

Phylitians.

These say, against the opinion of the Empyrics, that Anatomy ought to be practifed, even fometimes upon living bodies: The which Herophilus did, who obtein'd, from Kings, men that had merited death for their Crimes, and diffected them alive, thereby to know feveral inward operations, which are abolished in dead bodies; as the inward motiens of the Vital Parts, the Diaphragma, Lunge, &c. of the Comprehension which the stomach makes of the Food, while it transinutes it by is coction. And they fay that it is laudable, by the torments of a few wicked Men, to profit the health of innumerable Virtuous

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ones. And it's very like that they gave them fome Narcotic, or Stupefactive Medicines, to abolish or diminish the Sense, and consequently the pain; which hath been sometimes counselled to them that were to be cut for the Stone in the Bladder. The Dogmatical Phisitians, Anatomize dead bodies also, thereby to acquire the Knowledge of things of grand import and profit, in the Art of Phisic; as

First to know the substance of each part;as that the heart is of a Musculous substance; the livers fubstance as it were blood coagulated. Secondly, The quantity of a part; as that the Liver is of such a magnitude and greater than the Spleen. Thirdly, to know the relation of the parts; as that there is a communication between the Stomach and the Brain; and likewise a Sympathy between the Oifice of the Stomach and the Heart, by reason of the Arteria Aorta; which, mounting above the Spina, affociates it felf with the faid Orifice: And from this Theory proceeds the Knowledge of diseases which come by confent, and which are Primary; which is a thing that imports very much towards the Cure of diseases. Fourthly, To know the quality or temperature of each Member, by the help of reason; as that the Liver is hot and moist; because it's of a sanguine complexion

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plexion; as that the bones are cold and dry because they are exsanguos. Fifthly, to know the number of the parts; as that there are two membranes of the Stomach, fix lobes in the Liver, two Lungs, &c. Sixthly, to attain to the knowledge of the figure of each part; as that the Liver is partly hollow; and in the other part where it reaches to the Diaphragna 'tis Gibbous: As also Seventhly, to know the Action and Profit of the parts, as that the Heart is the Principle of the Vital Faculty and Motion. Likewise that the bones, although they have no action, yet they are of profit to the body, either to fultein it, or defend the Noble parts, as the Cranium does the Cerebrum, and the Pectoral bones the vital parts. Then Eighthly, Anatomy ferves us whereby to know the Situation of the parts of the body; as that the Liver is situate in the right Hypochondria, and the Spleen in the left, &c. Ninthly, It helps us to know what part is affected and offended in a disease; as that the Yellow Jaundies proeeed from the Liver, and the Black from the Spleen; the Pleurify proceeds from the membrane adjoining to the Ribbs, &c. which were all Collected from the documents of the great Physitian Galen, by Alexandrinus a lear ned commentator upon Hippocrate's book of Popular

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Popular diseases. Lastly, it is from Anatomy that all the chief improvements have been made in Physic; as the circulation of the Blood, &c. as Dr. Goodal hath learnedly demonstrated against the Chymists at this day. And now because this best of Sects proceeds by method in the Cure of diseases, and by consequence by Indications, which are sometimes Simple and sometimes Complicate; let us now treat of them, succinctly and in Order.

CHAP. II.

Of Method, Indication and Complication.

MEthod then is, as it were, a conduct or fafe and sure way, whereby to come to some Intention: Or, according to Galen, it is an Universal way to attain to the truth which is common to divers particular things. Now to the constituting a Method of curing discases, there are two things required: A direct order of Indications; and an artificial and legitimate administration of Remedies.

Indication then is an infinuation, fign or instruction of what is to be done: So that Indication

Indication shews the invention of that which is to be done: for to invent a thing by Indication is to begin at the Nature of a thing; then to invent without Experience, that which is consequent to that Nature. Now the invention of things found out by Indication, is founded upon four general Rules, whereupon depends the whole Art of Method: Whereof the First is, That that which is according to Nature requires or indicates its conservation. The Second, That, that which is against Nature, indicates its Ablation. The Third, That conservation is performed by things of a like Nature. The Fourth, That Ablation is caused by things of a Contrary Nature.

Now these general Rules are particularized according to particular or special Indications; as that an hollowUlcer indicates replection an hot intemperature refrigeration, and each of these special Indications are deduc'd from the two general; then indication is taken from each of the three things, upon which all speculation in Physic is founded; that is first from things Natural, as the faculties of the Body, &c. Secondly, From nonnatural things, as the disposition of the Air, &c. Thirdly, from things against Nature, as Diseases and their

Causes, &c.

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As for Complication that's an Aggravation of several things, whereof each proposes it's Indication : By which definition you may perceive that complications are not mentioned but in regard of Indications. And as Indications are taken from things Natural, non Natural, and contranatural; fo complications are taken from the faid things, and in feveral manners. First, From things natural, and unnatural; as from the faculty, and the difease: Secondly, From things Natural and non Natural; as from the Temperament and Complexion of the Patient, and from the disposition of the Air which encempasses us. Then from divers things against Nature, as in wounds and apostems, as an Ulcer with a Varix, Fluxion, or Distemperature. And as concerning the complication of a difease with a Symptom, that is reduc'd under the complication of a difease with it's cause: For a Symptome, as a Symptome, indicates not; wherefore it cannot be faid to be complicate; but is as a cause when it exceeds. And because it is not enough to know these things by Theory only; but that we must accomodate them to the practic part, which is the end of the Theoric; we must therefore, in all our practife, regulate the aforefaid things by certain Rules deduc'd from Galen in his Seventh

venth Book of his Method to accomodate

them to practife.

We must then consider in complications, the most urgent thing, the Order, and the cause. This Artifice is of grand efficacy; and is as it were, a thred to lead the Artist out of the Labyrinth, or intricate and confused Maze of complications; which otherwise are very difficult to regulate, chiefly to your Empyrics: First then you must consider the most urgent; which is that whereupon depends most danger: As if there be a complication of an Apostemation, Flux of Blood, Intemperature, Convulsion, Pain and Ulcer, then if Convulsion be the most urgent, you must first direct your intention to that, without neglecting your other Indications: And as there be feveral Indications, whereof one is most material, so must your remedy be contriv'd, as having always respect to that. Secondly, You must consider the Order of complicated dispositions: For sometimes their Complications is fuch, that one requires to be removed before the other, and nothing can otherwise be done; as when an Apostem and an Ulcer happen to be together in one part, it is necessary in the first place that you remove the Apostem; for he that shall attempt to Cure the Ulcer first, will attempt

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an impossible thing, in regard of the Order that belongs to fuch dispositions; because the removing the Ulcer cannot be accomplished, except the part which it possesses be healed; which can never be effected as long as there is an Apostem. Thirdly, When there are feveral dispositions complicated, whereof one is the cause of the other; you must, in the first place, follow the Indication of the cause before that of the effect: which is always Galen's Document; but chiefly t. 2. Artis medic. As when there is complication of a Varix, Ulcer, and Fluxion; you must direct your first counsell to the Fluxion, removing the quantity or quality, which caus'd it; and then you must betake your felf to the Cure of the Varix, and laftly, of the Ulcer, of which more following.

CHAP.

CHAP. III.

A more particular account of the premifes; and of the first Indication.

Y Ou must know then besides what hath been faid in general, in the former Chapter, concerning Method, that there be feveral forts of Methods; fome are proper to the handling of Sciences, and are divided in to three kinds, viz. when you treat of Sciences by way, either of Composition, call'd in Greek Synthetic, in proceeding from things simple to things Compounded; or by way of diffolution, nam'd by Greeks Analytic, Division and Definition; which they call the Horistic in Greek; the which kinds of Me. thod are comprehended by Galen in his little a Book de Constitut. Artis. The other kinds of Method belong to all forts of Affairs which are in the management of Man; as the Me in thod of building an House, &c. but the t curative Method and fure way of healing t is that which is guided by Indications. Now c

Now this word Indication is proper to Phylitians only, and out of the common use of the Vulgar; for every Art and Science hath it's proper and peculiar Manner of speaking, which is not common to others. Method then of curing diseases is conducted by Indications, two manner of ways; viz.by the means to find them out, and by the means of curing by them. The means of finding them out, is by the Art of Division; for you may divide them into two manners; but the most common is into three kinds; in dividing each into feveral particulars. The first is concerning things Natural. The fecond, of things Non-natural. The third is of things against Nature; although Galen reduces the two first into one, 1. 3. Meth. c. 8.

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Things Natural then indicate, to the Artilt, that they ought to be conferv'd, by their like; and from this kind the Indication is call'd Conservative; although it be serviceable towards the Cure. As for the things ds of Non-natural they indicate almost the same thich thing. But then things against Nature they Me indicate to be removed or prohibited, by t the their contraries : Now fuch Indications are of aling two kinds; for if they be taken from exter-nal and primitive Causes, not permanent, be-Now cause they admonish us to preserve our selves, they

they are called by Galen 1. 4. c. 3. Meth, Preservatives; although he dare not call them properly Indications. But if they be taken from the Effence of the disease, or from internal causes, as well antecedent as conjunct, then they are truly and properly named Curative

Now there are feveral kinds of Confervative Indications; fome regard the strength and faculty of the Person; to conserve which you must often omit the principal Cure. Others have an eye to the Natural temperature and complexion of the Body; from whence they take the Name; making us to consider whether the body be hot, or cold; dry, or moist, simply: Or whether it be hot and moist together, or hot and dry; or cold and moift; or cold and dry. Moreover whether it be Choleric, or Melancholic; Sanguine, or Phlegmatic. Others consider the habitude, whether it be, delicate, fine; a little Body, or a corpulent and robust, &c. others are concern'd about the Nature, and Complexion of the part where the disease is, from which part the Artist may deduce several indications; as from it's substance, whether it be fimilar, or oganic: If fimilar, whether it be hot, cold, dry, or moist; or hot and dry, hot and moift, cold and dry, cold and moift:

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And whether it be foft, as the flesh; or hard, as a bone; &c.If Organic, whether it be Principal and Noble, or as a Servant and less Noble; or not Noble at-all. In like manner you are to take Notice of it's habit; or to speak better, with Aristotle, of it's natural strength, or weakness; as of it's sharp and delicate sense; or it's dull or flow feeling: As Galen writes 1. 4. c. 7. Meth. Also you are to take your indications from it's Essence and Composition, viz. from it's form, figure, magnitude, number of it's Parts, of it's Relation, and Situation, and lastly, of it's actions and use: for from all these things ought the Artist to take his Indications in the Cure of the disease, which happens to the faid part, to conferve it in it's Natural being, by removing that which is Contra-natural to it: and here one might comprehend with this first of Indications, that which the Artist takes from the Sex, because it is almost one of the things Natural.

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CHAP.

CHAP. IV.

Of the Indications from things Non-Natural

The Indications from Non-natural things, and which are without the substance of the person, are likewise of several sorts: For some concern the Age, which is nigh a kin to the things Natural; others bear the name of things which are altogether without the Nature of Man, viz. the Air, as well that of his Nativity, or Country, as that where he lives, and is habituated to it: Likewise the season of the year; as also Education and Custome. From which things, as if they were Natural that is of the natural substance of the Body, the intention is to conserve them; and not to give to the patient things contrary to them.

But here you are to remark that these Indications of the things Natural and Non-natural, tend to some other end than to conserve them by their like: For they are also to be considered and taken with an intention to show and advise the Artist, whether he may use the same Medicaments and the same

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means to Cure the fame difeafe in a divertity and difference of the aforefaid things: And foupon this account they are also called curative Indications. For they make the Artift to understand and distinguish the diverfity of Cure of the same kind of difease, in divers respects, and according to the difference of complexions of Bodies, parts of the Body; of the age and custome, &c.as beforefaid, whereof they are Indications, and Signs; and give us to understand, that besides that there happens sometimes that the disease it self, is not only not curable in all complexions, in all Sexes, in all Parts, in all Ages, in all Seafons, in all Airs, in all Customs and manner of Living; but also where it is curable; yet it is not to by the same means. For, in truth there are some parts, and some persons, some Airs, and fome Seasons, or dispositions of times, where the fame Malady is curable; and where it is not. As for example, an Ulcer in the Lungs, or in the Nervous part of the Diaphragma, or within the Eladder, can not be cur'd, by reason of the part they posfels. The same may be said of the Region, or Country where some diseases are more difficult to be cur'd than in others. And fo, many difeases are curable in young. which are not in old persons. For the sea-

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fon it is clear, fome diseases are sooner curd in one than in another, and fo the ingenious Artist may judge of other Indications.

Now concerning those diseases that are curable, but not always by the fame means; to clear this point, let us suppose the Artist had a Patient of a cold, dry and melancholic Complexion, of a thin, little Body, accustomed to study hard, and dwelling in some solitary place, and in a cold and unhealthful Region; in a darkish and unpleasant house, useing a gross dyct: and this person hath a tertian Fever, in Winter, or an Ulcer with a Flegmon in his Eyes, or some other Universal, or particular difeafe. Then suppose he hath another patient, of another Age, of another Natural complexion, &c. having the fame difease, either in the whole body, or some particular part, but in another feafon; the fame disease is not curable by the same means, used to the one as to the other. For there is a grand difference in all Indications, as well from things Natural, as Non-natural.

Or, to pass by so many differences together, let us but take one in each Example, and put the case all other things are a like, and agreeable; put the case I say the Artist had a man and a woman who were troubled with the same uni-

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versal disease, as a Fever, for Example; or some particular disease; these diseases must not be cur'd in one as in the other; because they are of a several temper, by reason of their Sex. So likewise in a soft and delicate body, Sc. the disease is not to be cured by the same remedies as in an hard, robust, rustic one. For so many differences of habits, so many differences of Medicines: Likewise it is not possible that a Fever of the same kind, or an illcer, or another disease in a Phlegmatic body should be cured after the same manner, as in a Choleric one; or in a dry, as in a moil body. For different complexions require different remedies.

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Then for the difference of parts, take two men of the same complexion that are alike in all things else, that have the same kind of disease in leveral parts; now this is not to be cured in the one as in the other; no though it were in the same one man. For each part is to have it's proper remedy; and as many things as are to be considered, as well in a similar, has an organic part; so many are the Indications thereof, and by consequence so many medicines convenient for them. For an Ulcer in the Eye, is not to be cur'd as an Ulcer in the Ears; nor a Flegmon in the Throat, as in another part: The Artit must

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not repercuss it in the beginning, when it is night a noble part, as when it is far from one. A folution of continuity is not to be cured in a nervons part as in a carnous one; in a dry part, as in a moist one.

As to the Indication of the feafon; suppose the Artist hath under his hands the same disease in the same parts, or in the same Complexions of patients; but in several seasons he cannot cure this disease after the same manner and with the same Medicaments: For each season or disposition of times requires its Medicine to be different from another. The same may be said of the Air, whether Natural or other. If any one finds himself sek in another Air, than that of his own Country, or of his ordinary habitation; he cannot be cured by the same means, not taking Indication from the difference of Airs.

The Indication of the State, Custome, and Fashion of Living, brings much difference to the use of Remedies; for the same disease is not to be handled after the same manner in one of the long Robe; as in one of the short, as they say, in a Citizen as in a Country man; or in a Carter, or Mariner, or Soldier: In one that is accustomed to the cold, as in one us d to the heat; in one that

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is always us'd to drink Wine, or strong Beer, or Ale; as in one that never drank any; although they were of the same Age, and had the same disease, in the same time; and differing nothing in other things.

Then for those that differ in Age, and have the same disease; a young man of the fame City (put the Case, he were alike in all things, as well Natural as Non-natural, to a man of another Age, although all these resemblances cannot be) nevertheless by manner of example, bath the like difeafe, even in the same part of the body; it is not posfible that it should be cur'd by the same Medicines in the one as in the other; because there is need of as many Medicaments as Indications; and each Age hath it's Indication. And yet fometimes may happen a thing that will feem strange, and which is very curious; which by reason of the difference of the Age, the contrary complexions, as well of the body, as part affected, hath a Relation, as it were, to a like complexion, and may correspond to the same means of curing: As suppose an old man, hot and moist of bodie, who hath an hollow Ulcer, in a part of the same temper - and suppose a young one to the quite contrary, whose body is cold and dry, having in a part of the same tem-

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per, fuch a diferie as the other; you'll ask me, must I apply the same Medicament to them both? I answer, perhaps yes approvis ded that the heat and mossiure of the one, in regard of his old Age, shall not in any thing be different, from the qualities of the other, by reason of it's youngness: It being probable, that the qualities of the young man are not so cold and dry, that they be not so hot and humid, as those of the old mans who is of an hot, and humid. Complexion or

and charts propertaine particular to the fair Coret Thole wild parting by Universable limited, for the use being the relation

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Of Indications from Contra-Natural things.

These are properly those which are called curative; and are of several forts. Some are produced from the Essence of a disease, whether it be homogeneous and simple; or heterogeneous and compound; others are deduc'd from the cause a disease; as well antecedent, as conjunct. Others proceed from the Symtoms or Ascidents which accompany the said disease: all which Indications signific to us that the Intention of the Cure

Cure ought to be accomplished by the using of things contrary to the disease, it's causes

and fymtoms.

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Now I divide thefe Indications into fome that are taken from things within, or from the Essence of the disease; and those without it. Those from within are of two forts; the first is proper to the name and definition of the difeafe; which fort is general and common to the whole Cure of the difease: The second, to the differences and accidents of the difeafe, as well feparable as infeparable; and this is proper and particular to the faid Cure. Those of the first kind are Universal and limit not, nor flew us neither the means, nor the possibility (if there be any) to come to the intention of the cure: As for example, when I suppose that the disease is an Ulcer, without adding the differences thereof, the true and proper intention fignify'd by the faid universal, and first Indication of the said Ulcer, is that the Artist must dry, and unite it by a deficcative and agglutinative medicine; but the faid Indication neither limits the means, nor the possibility, how, by the faid Medicament, we should come to this Intention. Now those of the Second fort, which I faid were particular, limit and specify; not only the f id disease; but the Medicament C 4.

dicament proper to Cure it: As the Indications taken from the longness and largeness and profundity of the Ulcer: It's figure, fination, freight, or oblique, high, or low; it's equality, or inequality, &c. and certain other proper differences of the faid tilcer; And to do likewife the Indications which are taken from the Antecedent or Conjunct causes of a disease, or from the Symtoms thereof; and amongst others those which Hippocrates, as Galen fays, is the first Inventor the which are taken from the greatness and vehemence of the disease.

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The Indications which I call from without are likewise of several forts. For I divide them first, as the Rhetoricians divide the Reasons of praise, or dispraise; into two kinds: The one of which they take from: the Topics of the persons; the other from the Topics of the things which are without the persons. The Indications taken from the Topics, and persons, are those which we discoursed of before of things Natural; and almost Natural; as the Complexion of the body, it's strength and natural Habit; Sex, Age, Education and Custome: as also of the temperature of the part, it's composition, that is to fay, of it's fubstance, form, figure, magnitude,

A Supplement to Brugis's

niude sir's altuations and trelations of it's feeling, whether lacute and delicates or dult and groß and it is altion and profit, country ladications brought from the it opics without the parton sate other metallic circumstances which are called Indications from things must which are neither a Natural, and Continuatural of that is, which are neither of the full and the time, sealon of when year, Airrofothe compasses the patient; which are neither of the compasses of the patient; which are neither of the compasses the patient; which are reperature of each of all these months and above and the temperature of each of all these months and and I

Nowall these Indications caboveraid taken from without as we faid of those of the Second fort of those from within a which are taken from the proper differences of the difeate, are then called particular, when they are pyn'd to the faid dileafe, as circumftances thereof: Which as foon as they fpecify, himit and determine the fame, and render it particulario do also determine, particularize and modify the medicament; which otherwife was indetermined and common to the faid diference AW herefore as the Grecians call 2 Thefu an Universal propolition, undetermine ed, and not restrained to any circumstance. And the Sime proposition an abportion, when some circumstance is supposed, where's it is

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limited,

limited, as a certain person, time, place, or other thing: So we may suppose the difease, as a Thefu, which is not limited, or determinated to any Circumstance subut is considered generally and universally; and that Indication taken from it, we may call Theries that is, absolute and positive; that is, without a ny regard of any special thing, the which, for this reason, thews us neither the possible lity, or impossibility to remedy the faid difcase; and determines not the proper remedy for it. And I call the faid disease, as it were Hypothesis, when there is supposition of any of the Circumstances aforesaid, by which it is limited and particulariz'd; And the Indications proper for the Cure thereof I call Hope thetics, and suppositives; and the which being taken from the faid Circumstances and Differences, specify, determine, and modify that Medicine, which is convenient for the discase, and declare the possibility or impolfibility of curing it. Wherefore to be fort, I distinguish also the names of all the Indicarions aforefaid. Those which are taken from within; from the pure effence of the disease, and not from the differences, causes or symtoms and accidents thereof; we may truely call them the primary, but not the principal Indications of the cure of the difease: Com-

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mon Indications, general Indications, or univerfall Indications of the cure: Indefinite Indications, and without regard to any difference, as Circumstance; Thetical i. e. positive Indications: Indications which univerfally and generally shew the Cure of the difease, not limiting or specifying the remedy; that is, not declaring the manner if it be positive.

fible, or impossible to remedy it.

Now those Indications which are taken from within, but from the Causes or Symtoms of the difease; and all those taken from without, are called fecond Indications, and yet the principal in the Cure of the di! ease; proper Indications, particular Indications, special Indications, hypothetical Indications, that is, Indications in the Cure of a difea'e, wherein we suppose some Circumstances and certain things to be joyned thereto. Which Indications, demonstrate in particular, limit, specify, modify and appropriate the remedy and medicine, which otherwise was undermin'd and general for that difeafe, and not-agreeable to any difference thereof, nor to any person. And to speak more clearly and fummarily, they are Indications of possibility, or imposibility; that is, of the manner how it is possible, or not, to accomplish. the intention of the first Indication.

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And now having cleared das bhope, and made cafve this dooring of Indications which you may perceive is of for grando concernant the Garing of difeases methodically and non compyrically wet forme imay think inftrange that we should trouble the Artist with such a number of them in the Ture of a difeate; lince feveral, that have the repute of able Plin fitians a make use but of ones and that is, that which is taken from the effence of the difeafe; from which Indication , anthe Scope and Intention is to cure the faid difeafe, by it's contrary; as Reason guides us; and it is the common opinion of the two grand Luminaries of Philic Hipporrates and Galen; for that it must follow that this Indication alone deduced from the effence of the difeafe, will be sufficient to find out the means to Cure the fairl difeafe, without any other and id

But I answer, the Consequence will not hold good; for the agreeing to that which so many great persons say, and not denying, but that it is rational that the disease should be cured by it's contrary; must not therefore cause you to infer, that the Indication taken from the essence of the said disease is sufficient: Which being admitted for necessary, will not take away the necessary of others. We hold this Indication for the Primacy, as

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Haid before abut not the principal offer, as Galen fays, it indicates not the means? whether it be possible to cure the faid difease, or no nas the others do the which for this reason, are the principal and necessary. And as Philosophers, to conclude their Questions, use several demonstrations and arguments neceffairly probables and your Orators use all forts of proves whereby to come to the Conlequence of their purpole, and to close up their orations: fo Philatians, to attain to the Intention of the Cure of a difease, make use of all forts of Indications; and must not be regulated by the example of Vulgar Philitians who yount themselves to be Methodifts; but are in a great Errour, and endanger their Patients, by following and observing, this one indication atone, taken from the Effence of the difease; being miltaken for want of understanding that common Maxim, aright (viz) that the control y is cur'd by the neonary on occ. For this Maxim comprehends, which there is a necessity of following and observing other Indications also, which fhew us feveral means to attain to the Cure; as may be proved from that great Philitian Galen, concerning which hear what he fays.

The first Indication (fays he, in the begining of the third and fourth of his Method) is not a weighty part of the curative part of Phisic, but the beginning only, and foundation thereof: Neither indeed, is it a thing proper to Phisic, being common to simple People, even to Children. For in this Indication is neither any Art, or Cunning; nor any other Ingenious matter, that is not wholly common and manifest to every one. For the simple Mechanic and ignorant people, if they feel or perceive any member out of it's Natural place will tell you that it must be reduced to it's Natural place; and they can tell you also that an Ulcer must be closed up: That a Flux must be stopt; but they know not the reasons and means by which thefe things are to be accomplished and put in execution. And it is this which ought to be ordered by the Physitian the true Curer of the difease; who alone is able to invent the things, by which shall be accomplished that which is infinuated and given us to understand by the first Indication.

These are the Golden Words of the second Prince of Phistians: And all these reasons and means, which the Phistian must invent to come to this intent; or to know if the disease be possible to be cured or no, do we find from the particular Indications aforesaid, as well of things Natural and Nonnatural, as Contra-natural; which restrein

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And now by this discourse of Indications I hope the Artist will easily perceive that the Method of Curing is guided by them; and that the Cure of diseases is the work of reason chiefly, and not experience: For, as is said before, although your Empyrics, and little sort of people, say well, that all solution of Unity requires Union; and that to every disease, it's contrary is requisite; yet it is the work of an able Phisitian to know, whether the said Union to every solution of continuity be possible or no; and if it may be accomplished in all the parts of the body; or if in some it cannot.

For every Natural thing being alienated from its own Nature and Degree of perfection, requires, by a certain Natural Instinct, as it were implanted in it, a reparation, restauration or restitution, and to be replaced in Stampus prints, that it may thereby conserve it self, until its Period allotted it by Nature, which is insupportable. Though Natural Beings, may come to their end by violent causes before the time of the said Period. And when Nature hath accomplished this reparation equal to that which it loss; she hath then arrived to her first intention.

But if this Natural Being, be not to happy as to replace it felf in it's first degree of perfection; but shall search out other means that shall come nigh to this reltitution, and the thall attem it, then we say the hath relitution made her, according to the second Intention; being disappointed of the first. As for example, when there happens a deperdition of the substance of a bone; Nature without doubt, endeavours all the can to have a bony substance restord her in lieu of that she both lost; but being frufirated in her delign, or not being able to attein it; what does the do, but goes another way to work, and creates a certain Jubstance in the place thereof called a Callus; which the makes of part of the nourthment due to the faid bone; and this she does, not by her formative, but nutritive faculty; being Deputy to the formative Virtue, being ablent; and in case of necessity, executing an Office, not proper or effential to her, for her duty is to repare that which is confumed by the Act of the Natural heat.

For, as the same Galen Tays, loco cisaco, The common and simple People are ignorant, that the nervous part of the Diaphragma, being wounded, cannot be consolidated . That the prepute cannot be united; if cut a sunder; if putrefaction, or

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rettenness in the bone, be curable, as well as crofion in the fleshy: If a Fractire may be united as a mound: Or whether the faid fracture may be united by a Callons substance. Moreover, they under-Stand not, if in fractures of the Scul, me must attend the generation of a Callus; or if it may be cured, after another manner: And to say all in a Word, your common people understand nothing besides the first Indication; and all your Empyrics know not much more, although they make great boast of their experience; which though it be one of the two Instruments of all Invention, yet it cannot like Reason (which is the other Instrument of Invention) find out, nor frew us the Substance of the part where the disease is, nor it's Action, or it's use, or utility; nor it's situation, or connexion, nor other things from whence we take our particular ledications; by means whereof every rational and Methodical Philitian is able to fore ee, not only difeases incurable, but also those that may be cur'd, and the remedies wherewith they are to cured.

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By this learned, profound and curious discourse of Galen, the Artist may plainly see that the means of the Empyrics and Quackfalvers braging and boasting of their grand cures, and their vaunting themselves to be as knowing and expert as the Methodies, is removed out of doors; because the Indications and Reason

Reason are the only means which separate them, and make a difference between them. As for their experience they may brag of, Alas, it is not made from one or two, but confirmed by a long tract of time, in many patients of both Sexes. As for Example, it hath been experienced that a Cancer was cured in a certain Woman, with leaves of Netles, bruised with common salt; but therefore it will not follow this is approved of by experience; for apply d to several others it wrought no effect.

And hitherto have we explicated the means how the Artist should find out his Indications; by which he is to be guided; having declar'd first what an Indication is; next how many forts the Artist is to make use of, in his conduct of curing diseases; Which is the first and general: Which are the second and special ones; and which are the principall: So that it is time now to let him know how he may use, and help himself, and patient by the said Indications.

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of the use to be made of the aforesaid mone of indications.

THe means how the Artist may know of how to make use of the aforesaid Indiations are two-fold . The first is treated of in a general way, by certain Rules of each ladication, confidered by it felf, without conference, and in a special manner by exples in Ulcers, we shall declare to you presently when we shall speak of the Curative Indications of Ulcers. The second treats of the Conference and Excellence of the said h ladications concurring in one difeate. We hall wave, for the prefent, the first means of using the Indications, which treats of the Rules of Indications confidered simply and by themselves; and come to purpose to enquire into the Excellency of those that coming to rencontre one another are of different and contrary Natures, either in a simple and sole different or in a compounded contrary. fole difease; or in a compounded or complicated one.

And here it feems that the great Galen gives us a light into this enquiry, 1. 3. c. 9 Method. Medend. in which place he fays, that it often happens, that contrary Indications will meet at the same time : And also all that is infinuated by them is put in execution, at the fame time: Hereby giving us to understand, the contrary Indications taken from things Natural, Non-natural and the disease. Then he fays, a little after, that it happens fometimes, that that which is infinuated by divers Indications, cannot be accomplished at one time; fignifying thereby, as may be fupposed, the Indications taken from diseases complicated together; which require to be cured in order, one after another, except fome one must remain uncured; and fo, as to

As to the first, I thus distinguish; either there is another complicated, urgent and perilous disease, or not? If there be a complicated, urgent and dangerous disease, it Indicates to us, that it is our business to begin

this one enquiry, I shall answer, as if they

were two enquiries: The one concerning

the Conference of Indications contrary to

things Contra-natural; the other as concern-

ing the Excellency of Indications, of things

as well Natural and Non-natural, as Con-

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the cure with it, not with standing that by this means there remains one incurable of or that we are confirmed to make another which will remain without being cured. For the discase that is urgent and perilous, is sometime of fuch fort, that to cure it we are forced to leave another difease incurable : And sometimes there is a necessity that the Artist himfolf procure, the faid difease, although himself connon cure in a As for example; if the head of a Mulde be price do and there follows a Convallions which he cannot possible come at by Medicines, that by cutting the Mulcle manfeefly the deures the Convultion to but then xat the fame time, herdeprives the part, where the Musclesis, rok voluntary motion. Alfo, diffesions folme great I joint, othere be a luxation or diflocation with an Ulcer ; if you try to reduce the faid luxation or diflocation, there will immediately follow Spatnes and Convultions, which are very dangerous difeafes. Wherefore, to prevent the faid Convultions, we must imploy our utmost skill to cure the Ulcer, and leave the luxation without being cured. But when in Complicated difeafes, we are not press d, nor drawn afide from the principal Cure; that is to fay from the dilease proposed, we must observe this order, viz. following the Indication of the thing

thing which hinders most the principal Cure of the said disease; and the action of Nature, we must Cure that thing first: then the other (if there be several) by the same order and reason, so that none shall remain uncur'd.

As to the other enquiry, which was made concerning the conferring, or comparing of feveral Indications, which entercombat and are opposite among themselves; as well of things Natural, as Contra-natural and Neuter how thefe'I fay may be follow'd and dispatch'd at the same time ! I shall illustrate it by examples: As suppose an ancient man that hath been accustomed to strong drinks, and to cat often in a day, when he was in health; is now leized upon by a Fever; and that, in regard of the Fever, flrong drinks, and often eating is contrary to him; but in consideration of his Age and Custome, they are necessary for him: behold here are three Indications difagreeing and contrary (biz.) two of the things almost Matural, viz. the Age and Custome; and one of the things Contranaturalment, ithe Fever; whereof the two first are Conservative, and the last Curative: Among which there are fuch contraffety, as that the Fever rebotes the meat and drink; old Age rejects the often eating and not the drink;

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drink; the custome requires eating and drink-And now, because each carries it's ing. weight with it, the Artist ought therefore to endeavour to make fuch an accommodation between them; that to gratifie the one, he must not forget the others: And yet they ought to be put in Execution at the same time. Now the Artist is to consider that the confervative Indication is of greater importance than the Curative: So that he must therefore leave fomething unfinished in the Cure of the Fever; giving his Patient meats and drinks often; although they be contrary to the Cure; in confideration of Age, to which strong drinks are proper; and to conferve Nature in her custome; curing the Fever by other means, and conferving the faid things at the fame time, if it be possible : and if it shall happen to fall in Winter, the Indication of the time will augment the permission to eat much, and drink Wines and strong Drinks, (viz.) Beer or Ale, Co.

Take likewise another example, answerable to another part of your enquiry; which is concerning the rencontre of opposite Indications, deduced from the same Topic of Natural things. Suppose then that in the Cure of an Ulcer, the Artist meets with a Body of an hot and humid temperature; as in a sanguine

fanguine, young man; and the part ulcerated be of a cold and dry Temperature; as about the Joints; or the fubitance about the ears, or the nofe, or some other part where there is no flesh, or but little; and so he sees the Indications of the faid Temperatures are contrary, in comparing them, with that of the difease: Now to judge according to the enquiry, if the Artist can accommodate and agree them all at the same time, and we which require the greatest care in the Cure, the Artist must distinguish how many degrees dy, the faid contrary Temperature are diffant and from a mediocrity. For if they are equally ver diftant; he must apply such a Medicament ende as he is us'd to do in a body of a middle dryi Temperature, observing only the Indication Exaof the difeafe. But if they be of an unequal ons, diltance, that which exceeds the other, draws which to it felf the fortifying, or mitigating the pofit Medicament proper to the disease.

See here another example, not wholly unlike the laft, but proper, farther to explain the Heel solution of the enquiry : And it is of the jumi conferring, or comparing of feveral Indication for ons, of things Natural, and almost Natural, ame and of some Contra-natural agreeing toge-kera ther; although opposite, for the most part ir a to the Indications of the principal dilease ad b

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Suppose then the Artist hath under his Cure a grand and profound Ulcer, very painfull, in a render young maid, delicately brought up, in a part of her body of the same Temperature, and very fentible; the faid Ulcer, e as well in regard of it felf, as for it's magnie f tude and profundity, requires a more drying o and sharp Medicament: but on the other hand, the pain, the moist Temperature, as d well of the body, as the part, the feminine e, Sex, the Age, the Soft Habit of the bont and Condition of the person, which was nelly ver accustomed to labor, and who never ent endured any hardship; all these require less dle drying and more mild Medicines. In this on Example the Artist may see many Indicatiual ons, as well of things Natural as Non-natural ws which draw the Cure, each to it felf, in opthe position the one to the other.

One example more a little differing from un he last, and so I shall conclude; suppose an the liter in a part of an hot temper, and in a the liter in a part of an hot temper, and in a the liter in a part of an hot temper, and in a the literation it's part it requires a desiccative Medical, ament, and the Temperature of the part literated, that requires an hot medicine; the part in about the Patient is too hot and too dry heast and because to the Air a cold medicine and less aposts.

drying is proper; and all this falls out at the same time: If the Artist shall ask to which of the said Indications he ought to be most intent? Which he should prefer? How he shall satisfy them all together? I shall answer in a few words; those of greatest importance, and of grandest consequence draw to them the principal Cure; and regulate the medicine, in moderating the other.

CHAP. VII.

Of things Natural, Non-natural and Contra-natural.

Hereas, in the former discourse there is often mention made of Natural, Non-natural, and Contra-natural things; if the young Artist be not acquainted with these terms before, from other Authors, he may then take this following short account thereof from me.

First then things Natural are so called because they compleatly constitute our Natures; and they are seven in Number; Elements, Temperaments, Spirits, Humors, the parts of the Body, Faculties, Functions, or Actions.

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The Elements, known to all, are Fire, Water, Air and Earth. The Temperaments arise from the mixtion of the Elements; and so a body is said to be simply hot, cold, moist or dry; or compounded of hot and dry; hot and humid: cold and dry; cold and humid. Then for the Humors, they are four; Bloud hot and humid; Phlegm cold and humid: Choler, hot and dry; Melancholly cold and dry.

Next the parts of the Body, and they are generated from the commixion of humors; and they are either Principal, as the heart, brain and liver, to which some add the testicles; or administring to the principal, as the Arteries to the heart; the Veins to the liver, the Nerves, &c. to the brain, the Spermatic vessels to the Testicles. Then the parts are some of them neither governing nor gorverned by others; but are governed by their own faculties, as Bones, Cartilages, Membranes, Flesh; &c. but what is here faid must be taken in a found sense: For Flesh receives from the Liver the Influence of the Natural faculty by help of the Veins; and of the Vital faculty by the Arteries; &c. then some parts exercise their own faculties, and those proceeding from others, as the Abdomen, Reins, and Marrix. Again a part may be divided into Similar, as a Bone, Car-

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tilage, Flesh, &c. which are so call'd because their parts have the like Nature with the whole: As an hundredth part of a Bone, is called a Bone; as well as the whole: And these are either sanguine, as Flesh, a Muscle, &c. or Spermatic as a Bone, &c. Secondly, Dissimilar, or Organic, because they are the Organs or Instruments of Operations; as the hand of Comprehension, and the Stomach of chilification; and fo of the Heart, Liver, Eye, &c. they are called diffimilar because they are divided, as to the Sense, into other parts, which lose the Name of the whole; as a membrane, part of the Eye, is not call'd the Eye: Nor a bone, part of the Finger, is not called a Finger.

Then the Spirits, they are the most aery lucid, subtile part of our Body; and the chief Instruments of the faculties; they are three in number, Vital, Animal and Natural; the first is generated and resides in the heart and arteries; the second, in the ventricles of the brains, Ecand are made of the vital; Galen doubted of the third, yet Philitians, after him, allowed of them, and added a fourth fort, viz, the Generative, residing in the Testicles; which they

fay is compounded of the three other.

Next the Faculties are to be considered; a faculty is the cause from whence proceeds the Function, m

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Action; and Action is an active motion proceeding from t e Faculty, and the Work is the effect of Action, as Flesh, Blood, &c. Action also is a work, as Sanguification, &c. but not the contrary; as work is not Action; as flesh is the work of Nature, not the Action, The Faculties and Functions are three fold, viz. Natural, Vital, and Animal. The first Facultie is inherent in Plants and Brutes; it affords nourishment from the Liver it's instrument, by the Veins; 'tis also called Facultas Concupifcibilis and Auctrix; 'tis diffus'd through the whole body, and yet is faid to relide in the Liver, by reason of the Blood, the common aliment of the parts: but properly it's Subject is every part of the Body that's nourished and augmented; yet it needs the help of four Functions, viz. Attraction, Retention, Coction of aliment, and Expulsion of their excrements. The Instrument of the Vital Faculty is the Heart; wherein it relides; it's the midle Faculty between the Natural and the Animal. The Organ of the Animal Faculty is the Brain, wherein it resides. To these some add the generative Faculty, which refides in the Testicles; since they say they are principal Parts; and ferve wholly for the confervation of individuals, and propagation of each Species. The. D 3:

The Vital Function or Action belongs to Heart, from whence proceeds the generation, and distribution of the Vital Spirits, to which the pulse is serviceable. The Natural Function consists in Nutrition and Augmentation, as abovefaid. Animal Action is performed by the external fenses, or motion, or the principal Faculty; the fenses are fve Seeing, Hearing, e.c. animal motion confifts in the muscles whereby the parts of the body are moy'd by contraction and extention, and geometrically after divers manners; The Principal Function conteins the imagination, or phantaly; ratiocination, or difcourse, and the memory: Now all these things are Philosophical Contemplations.

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And this is the description, in short, of the Oeconomy of our bodies, according to the Ancients. Now some moderns say, the blood is elaborated in the Heart, and that the Liver is but in lieu of a streiner to absorb the impurities, and send them to the Emunctories; and that it moves and winnows the Chile and Blood by the motion of the Diaphragma; and that it moreover cherishes the stomach: And so Bartholinus after Pequetus, shuts the Liver out of doors; as to it's office of sanguisication; yet Lindamus professes that the Liver helps sanguisication; but after another

ther manner than the Enthuliastical Van Helmont, who thinks fanguification is made in the Mesenterieveins; as it were in the shop of blood from inspiration of the Liver. But whether any one receives the Ancient or Modern opinion, or whether the Heart or Liver be the organ of fanguification; the Ancient practife of Physic will not be thereby changed; fays the learned I.D. Horstins, Manuduet, ad Medicin. p. 108. but the same conservative and curative Indications will stand firm for ever; as the famous Rolfincius hath strenuoully intimated: And his most excellent affistant, Dr: Moebius, in Institut. hath largely and elegantly handled this matter: therefore says the Learned Horsius, ibidem, we owe thanks to God, that the Methodus Medendi daily grows fplendid, more and more, and remains the fame; notwithstanding the disagreeing of some new opinions among Natural Philosophers and Anatomists; do not I pray, the Aristotelains and Democritists sharply contend amongst themselves concerning the Elements and Atoms? and yet they both cure after the fame manner; as may plainly appear from what the Learned Leichnerus hath written concerning Atoms.

Next are the Non-natural things; and they are such as enter not into the composition of

our bodies; but are without us; and yet have power, inevitably to conferve us in health; or to cause diseases in our bodies. They are six in number, viz. first the Air, 2 dly our Eating and Drinking, 3dly Motion and Reft, 4thly Sleeping and Waking, 5 lythRetention and Expulsion; that is, if those things are reteined which should be expell'd 'tis hurtful to the body: and e contra, as the evacuation of blood, urine, monthly terms. &c.be suppress'd they oppress the natural heat, and putrefy: So if those things be expell'd which ought to be retein'd, or be evacuated in too great a quantity, the heat is exhaulted, the Functions languish, and cold diseases Lastly, the Passions of the Mind as Joy, Sadness, &c. can help or hurt us. Lastly, the Things Contra-natural are to be

considered. They are three; first, A disease, secondly, It's cause, thirdly, It's symptoms. Now disease a is a Constitution against Nature, which immediately and manifestly hures the Operations: 'Tis threefold; first, Similar; secondly, Organic; thirdly, Common to both parts i. e. Solution of Unity. The similar is simple, as hot, cold, dry, or moist; or compound, as hot and humid, hot and dry; cold and humid, cold and dry. Also 'tis either universal, as a Fever, or particular, as coldness of the Stomach, &c. or it is either material with su-

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perfluous humor; or immaterial without it, as Inflammation; &c.

AnOrganic disease is either, first in formorma's Composition and that either in Figure, when that which ought to be ffreight is oblique; or in cavity when the meatus are stopt: in afperity and leinty; as when that which, by Nature ought to be smooth is rough; as the Trachea which is sometimes exasperated by fluxion of humors. Secondly, In number, and that either, first abounding from things Natural; whereof the cause is multitude of good matter, as when there are fix fingers; or Contra-natural, as the Stone in the Bladder, or worms in the Intestines; or 2 dly wanting, by the total ablation of a part, or not total. Thirdly, In Magnitude; and that is either in the first formation, or after the birth: The first is when a part, or the whole body is lesfer, or greater than convenient : The fecond is, by excessive growth of a part, or the whole body. Fourthly, In Site, or position; and that is when the parts possess not their Natural places, as in Ruptures, &c.

A common disease is the last; for all parts require Union, which is not the cause of action; but only a performance of the use. Solution of Unity is either in a similar part, as in a fractured bone, called Algebra, by the Arabi-

ans: in the flesh called a wound, or Ulcer; in the Nerves cal'd Convulsion, or Spasma; in the ligaments Apospasma: in an Organic part it is

called Avulfio.

Secondly, A Cause is any thing that produces. a disease: and it is either, first Procatarticor Primitive, which causes the beginning, and then abients it felf; as anger, &c. Secondly, Antecedene, which is produced by the primitive; as abundance of blood from copios valiment, Thirdly, Conjunct; by whose presence the difcase remains; and when absent it ceases, Fourthly, Causa per se, which is ordein'd for fome effect, and is expressed by a name denoting the Reason by which it causes it's effect; as heat is the cause of being hor. Fifthly, Causa per accidens; is that which is not ordein'd for the effect it produces; or which is not expressed by a name shewing the reafon whereby it produces it's effect; as cold heats by accident; and heat is the cause of fermenting a thing also by accident, which proceeds from the intervening of another thing; For cold heats by closeing the pores; and so hindring the iffuing of the heat; and the heat ferments or elevates because it rarifies. Also, when an effect proceeds from a cause that was not ordein'd for it; it is the cause thereof by accident : As when the making a ditch

to plant a Tree in, happens to be the cause of finding a treasure: although sometimes, according to Galen, a cause by accident is taken for a mediate cause, and Causa per se is taken for an immediate cause. Sixthly, Causa immediata, is that between which and it's effect there intervenes no other cause. Seventhly, Causa mediata when the contrary happens.

Lastly, A Symptome, or Accident, is a Contranatural thing which follows a disease, as a shaddow doth the body: As Redness, Pulsation, Dolor and Tension, are Symptoms of a Phleg-

mon.

A

TREATISE

CONCERNING THE

NATURE

FACULTIES

Of External Medicaments,

With the right manner of using and applying of them.

N D here I had made an end but that I thought it might not be from the purpose to write a few words in general concerning the Temper, &c. of External Medicaments, the Artist shall make use of in his Practise; Know then that when Physitians call this Medicine hot, and that cold, &c. know I say, that it is to be judged so only by it's Operation; when it is applyed to a temperate body; without enquiring what it is in it's own Nature;

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Nature; and what Element domineers in it. Know also that in the temperature of Medicines, there are assigned them four degrees, above the exact temper, which hath no degree; as being of such an exact temper. The first degree then of hot medicines heat, cold, cool, dry, dry, moist ones humect; but not manifestly, or sensibly: insomuch as they have need of fome rational demonstration: the fecond degree, heat, cool, moisten, dry, manifestly, and sensibly, so that there is no need of demonstration. The third degree acts vehemently, but not extremely; Lastly, Medicines hot in the fourth degree burn and cause an eschar, as quick-lime: The cold mortify, as Henbane; the dry always burn, as actual cauteries: As to the humid Galen is filent. And now because all Medicaments ranked in the same degree, are not wholly alike, therefore there is, with great reason, assigned a certain latitude to each degree, which is divided into three; that is, first, fecond and third degree, of heat, for example, and so of the rest. And though the Ancients, before the time of Galen, did not fo graduat their medicaments, as appears from Dioscorides; yet the Invention thereof is of great use and profit in practise. For it is not fufficient to apply to an hot discase any cold

cold Medicine, without any other limitation. or confideration: But according to the excess of the Intemperature, and offence in heat, so must the Medicament be proportioned in the like degree of contrariety; according to Artificial Conjecture and the nighest to certainty; and not always by certain and infallible knowledge, whereof divers Medicinal things are not capable: and

now to particularize.

Here then we are to begin with Adstringents under which are to be comprehended all Medicaments that are of a condensing Faculty, as Repellers, Epulotics, &c. Now these perform their Functions, either without any manifest quality; or with some acrimony, (as as ustum, &c.) which extenuate, digest, and produce an Eschar, and therefore are proper for fluxions of blood in wounds. Some bitter Medicines are of an adstringring, purging, and absterging Faculty, and are proper in inward and outward difeafes. Salt things are proper for loose parts, and those that are flaccid from plenty of humors; because they contract and constringe. Lax parts sometimes require-only adlfringents. Sometimes those Medicines are necessary which thicken the humors, if they be thin, and fluid. fluxions and diseases, of the head, adstrin-

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gents ought to have also a desiccative quality. to strengthen the part, if the fluxion be cold; but if it be hot, mere binding and thickning fuffice. Sharp adstringents are to be shun'd in the eyes; and ungratefull and malignant in difeafes of the mouth; as also minerals in the difeases of the stomach; as also bitter sharp and acid in Ulcers of the Intestines. Adstringents are not convenient in all fluxions, nor always, nor in certain parts, but they are to be used only: First, When the matter is never evacuated by the Law of Nature : As blood, &c. Secondly, When there are bad Symtoms, as pairs, fwoonings, &c. Thirdly, When evacuation is in an incommodius place. Fourthly, Aftriction is convenient in Ulcers, in the beginning to prohibit inflamation, and in the end to produce a cicatrice; but it is hurtfull in the progress and state of inflamations lest it cause a Gangrene.

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Repellers are of a cold Nature, or of a thick, terrene matter; for many things repell only by their coldness, which adstringe not; as Henbane; Letice, Poppy, &c. Some hot things adstringe, which repell not; as aloes, &c. Repellers are convenient in the beginning of fluxions; cold ones are proper if the part be affected with great heat and pains; but the others if the part be only weak and lax,

to strengthen it: they are proper rather for hot differences, then cold; and that only in the beginning; for in the progress you must add Resolvers. Now they hurt also in these cases; first if the humor be in the Emunctories of the Principal parts, (viz.) in the Groins, under the Armpits, or behind the Ears; left they repell the humor to the part. Secondly, If it be venemous; Thirdly, If it be thick, or fixt in a part fo that it cannot return; Fourthly, If the Fluxion be critical. Fifthly, If it be in a foul, cachochymical body before univerfal evacuation; viz. bleeding and purging; and fixthly, when the part is weak; lest repellers destroy it's heat, whence Scabs, Leprofy, &c. ought not to be repelled: They are proper in Pblegmons, Erysipela's, Ignis Sacer, and such hot Tumors; and are us'd either in form of an Epitheme, Fotus, or Cataplasm.

An Epitheme may be made ex aquis nolasi, rosar. lactuc. burs. pastor. portulaci, &c. but the more effectual and powerfull is made of the decoction or juices of the green herbs of solanum, lactuc. polygon. semperoiv. cicut. byoscyam. &c. or the same herbs bruised, are proper, applyed in form of a cataplasm; or the juices with Barley meal mixt to the consistance of a pultis without fire; to which may be

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added, Bolus, Sangis dracon. &c. or thus, 4. Ung. populn. 31. mucag. fem. Citon. Pyfilij. an. 3111. Juc. portulac. 3.s. ol. violar. rofar. an. 3i. Flor. nymphese, rofar. an. 3i. Cerse q. f. F. Ung. ent. or this. 4. ol. myrutin. cidon. a 31. Bol. Armen, Sang. dracon. pulv. gallar. a. 3i. Aceti cochlear, i. f. Liniment.

Fomentations are made of Oxycrate, or the aforesaid juices with vinegar, and adding some meal is made a Pultis. Or thus, 4. Rad. acetof. cichor. a. 3 iii. Fol. violar. semperviv. portul. lactuce, lenticul. aquatic. acetof. cichor. and in a great inflamation, Solani, Hyosciami. a. M. i. flor. Nympheæ, rofar. papav. rub. a.P. I.F. decoctio pro foru; in inflamations. By these examples the young Artist, if he be ingenious, may frame others, ad infinitum, if he fee cause. In the shops you have Ung. Adstringens, &c.

Emplastic medicines are nighest a kin to Repellers which, by their tenacious quality, close the Pores and Meatus, and thicken the humors : some of them are of a viscous substance; some merely of a terrene, without morfure; as Lythargyrus; their nature is the same with Adstringents.

Next we are to treat of Anodynes; now the property of these is to lemify or stupefy the body, or any part, the cause of the disease remaining. The Lenisiers are of a

temperate

temperate quality and agreeable to our Na. J. A. tive heat; of a thin substance; and are proper for hot or cold diftempers; but in an hot one they must be somewhat refrigerating. Narcotics are only to be used in cruelty of pain; they do much damage if the pain proceeds from thick humors; but are more convenient for hot humors. After the Artift hath used them, to repair the damage done by. them, he is to use hot Medicaments: wherefore they are bad in weak bodies and parts, and if humors be malignant; lest being imprison'd they bring danger. This is an Anodyne Fotus, 4. Rad. Alth. Lilior. a. 3ii Fol. Malo. Parietar. Violar. Branca Urfnin, am. i. Fior. chamemeli; meliloti; sambuci; a. P. I. sem. lini, fanugrec. a. 315. F. Decoctio pro Fotu; strein it; and with the materials being bruis'd; &c. and adding farina sem. lini, bordei, a. 3if. Ax- Ficus ungia porci, butyri recentis, a. 3 i.ol. Amydal. dulc. 3 ii. legi, F.Cataplasma. Or 24. Medull. panis cum laste coct. due 16. Vitel. Ovor. Num.iii.ol. Rosat. 31. croc. 31. F.Ca- ol, A * uplasma. Or 4 . Mucilag. sem. Alth. Lini, Fænug. a. 3 fs.ol.lilior. Amygdal.dule.wsepi .Axung. Anseris,a. to E 315 ceroæ parum. F Liniment These are for cold fore pains. For hot pains make aniniment of al. mor bum.ovi& ol. Violaceo, and in height of pain Hyofci. The am. and Opium. . Fol. Hyofcyam. Solan. Malve. a.M. heat i. Flor . Papaveris, P.ii fem. Lini, Malv, a. Zini. coque men

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A. pro fotu. To the residence bruis'd, add Mica panis albi, in Laste costo Zii. ol. Nymph.

Ung. Rosat. a. 3ii. F. Cataplasm.

Emollients are next, Now they are not whatsoever things take away any hardness; but only that which was caus'd by dryness: And these must be of an hot and humid Nature, in the first and second degree. What diffempers are bard through repletion, require evacuantia to cure them; but those hard from congelation require Calefacientia. Relaxating Medicaments are convenient for diftended diftempers; and mollifying for hard ones: But those which are both hard and diffended they require both forts. They are of the same Nature with Anodynes, but you must add Origanum, Anethum, Calamenth, &c. as, 4. Rad. Lilior. Ebuli, Ireos, a. 3ii. Ficus, No. x. Fol. Malv. chamemel. Aneth. Pulegi, a. M.ii. F. decoctum pro Foeu. To the Refidue bruis'd add, Farin fem. Lini, fanug. a. 3i. ol, Aneth. Irin. a. 3 B. F. cataplasm.

Attenuating Medicaments are of a nigh kin to Emollients, they heat, and incide, thered fore they are to be of a thin substance; some more, some less; those are called Diaphoretics:
They are not to exceed the third degree of heat, lest they burn and harden. After fomenting with the aforesaid emollient decosti-

on presently anoint the part with some attenuating oil as before, or Ung. Agrippe, or Aregon; then apply the Pultis, aforesaid. Or 4. Ol. Costin. Irin. comp.a. 3ii. Pingued. Galline. antiq. Butyr. salf. a. 3i. Aq. Vitæ parum, F. Liniment. Aq. vitæ, or Brandy alone have often resolved cold Tumors.

Medicamenta Attrabentia are a nigh relation to your Attenuantia, and they are of an exceeding hot nature, as, Sinapis, Finnis Columbinus, &c. and those that being hot in the fourth degree, cause blisters and redness, are called Vesicaroria, Dropaces, Sinapismi; they powerfully diffolve and colliquate; they are proper in Drophes, Sciaticais, great pains and often Vomittings; but they hurt being apply'd to parts wanting flesh, Children, and tender women; fuperficiary diseases, and cold ones without matter, Actius: to which Calefacientia are fufficient in ulcerated and hot diseases. Yet they may be proper in the declining of the difease. Secondly, If the humor be so highly fix'd that it cannot otherwise be discussed; as in a falt distillation Galen applyed them to the head. Thirdly, If there be a venenate quality; as in a carbuncle, malignant Ulcer, biting, or venenat puncture. Fourthly, when venenate humors are to be averted from the Noble parts.

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A Dropax is of excellent use in Arrophia, and extenuation of a part; for it heats and humects, and attracts blood; for aliment is not distributed because 'tis transmitted, but because it is attracted: Therefore cold and dry parts do not well attract; whence they require the help of heat. But here you are require the help of heat. But here you are to understand that that extenuation of a part which proceeds from a defect of the Stomach or Liver, evilly concocting, cannot be removed by a Dropax. You are to remove your Plaster before it be cold, and it is often to be repeated, while the part looks red: It carries away the reliques of diseases: A simple Dropax is called Picatio, being only pitch melted in oil. But in hard bodies Galbanum and Sagapenum are to be used. If a more compound be required then the Artist may add, Piper, Pryrethrum, Sulphur Vivum, Sal. Stercus columbin, Bitumen. It ought not to exceed the third degree of heat, because it's and is only to rubify the part. The skin is instituted by the repeated every other day as occasion reliated by friction, not fomentic, nor by a largax; it is a desperate case. pax ropax; it is a desperate case,

A Sinapism is a cataplasm made of Mus. tard feed, and Figs, steep'd in Brandy, and bruised together. The milder hath one part of Sinapis, and two of Figs; the meaner is of equal weight: the stronger hath two parts of Multard feed and one of Figs. Tis to be used as a Dropax; first rubbing the part &c. after it hath produc'd a rednessanoint the part with ol. rofar. &c. 'tis proper in daily pains of the head, brest, joints; the Epilepfy, Hemicranie. Palfy, Distillations, Sciatica, Gout, short Breath and want of Appetite, fays Aerius. Have regard to the parts to be applyed to, as in Dropax. For a more compound one. 4. Empl. de Mucilaginib of fuch like, 3ii. Sem. Sinapi, Siaphisagr, Stercor. Columbini, a. 315. or 3vi. pul. caryophil, 3il cum. ol. Irino F. Empl. For the head make them in form of a T.

Vesicationes are of the same use with the former, and are made of Empl. Epi pasti cum.

The next we are to treat of are Medica menta Maturantia, and they are convenien where the humor is imprisoned, and by reals of it's thickness, cannot be resolv'd or set liberty they must be of an hot and humid or emplastic quality; lest any matter should be diffolved; they are proper in the State

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Encrease of a Tumor; but less proper in the encrease they are made of the aforesaid Anodyns and Emollients; to which may be added Capas, Oxylapath. Tussilag. Oxalis roasted in the Cinders and bruised with Adeps, is excellent: Also Ficus cum butyro, oleo and farina tritici. In the shops you have Ung. Basilic. Agrippa, Empl. Paracels. de Mucilag. Diachilon cum Gummi, &c. If you cannot release your prisoner by these means; then you are to apply an actual, or potential Cauetry, and to use your incision knife. The Artist must open it, in the declining part according to the wrinkles of the skin; shun veins, arteries, &c. not evacuate all at once.

The Tumor being open'd, the Artist is then to cure the Ulcer, and to dry it up; for an Ulcer, quaterus an Ulcer, requires to be dryed up: But by what means and Medicaments this shall be effected, bic labor, boc opus; well then the Artist must perform this by deterging, sarcotic of epoulotic Medicaments. Now the deterging Medicaments which perform this office, are to be most frequently of a bitter, hot Nature, in the first or second degree: or temperate; somewhat cold and dry, and of a middle substance; and these are to be either of a gentle and middle quality, which carry away the gros-

fer and thicker fort of Sordes; or elce of a more strong penetrating faculty, which have power to eat away a callus and corrupt Flesh; as in malignant Ulcers and Fistula's. In the shops you have Ung. Egyptiac. Apostol. &c. If your Ulcer be hollow you must dissolve your unguents in Smith-forge, or Alum water; or white wine, or brandy, according as the Nature of the Ulcer is, and Syringe it: if Fistulated, you may boil or infuse Tobacco in the aforesaid vehicles; some use insusion of Arsenic or Vitriol: and some Aq. Fortis alone.

The Ulcer being absterg'd requires Medicines that have power to beget flesh to replenish withall, call'd Sarcotics: Now the material cause of flesh being the blood; and the efficient heat; your Sarcotics, you must understand, do but only remove impediments which hinder regeneration of flesh: Therefore your Sarcotics must be of a deterging and exsiccating quality, without acrimony; or great heat, least they absume the blood. But because there are but very few Simples which can perform this alone; therefore compounds are made use of rather; and they must be divers according to the Nature of the body and part affected; they must be of a dryer quality for dry bodies and parts; but in humid ones, as children and women, they must be moister

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moister and milder. Then the Artist likewise to note that if his Sarcotics be weaker than is requisite they cause the Ulcer to become sordid; and if they be too strong they will certainly exaspereate it: Which many not understanding have apply'd stronger and stronger; which prov'd to deterge too much, to the detriment of their Patient and practise, procuring thereby an eating Ulcer, or Nomodes.

And here in the use of Sarcotics the Artift is to confider four things. First, seeing that the generation of flesh, as I said before, proceeds from the alteration of the blood; he is therefore, in an especial manner to see that the body be in good temper; and if not to procure good blood by altering and evacuating remedies, viz. good dyet, phlebotomy, purgation, &c. fo in the use of his medicines, the Sanies and Sordes is to be dryed, but moderately; for if you go violently to work, you will absume the matter from whence should proceed your flesh; so Farina Hordei & Fabarum exficcate without heat; and Thus moderately. But Farina Horder & frids are more valid: But your Aristoloch. and Parlax are stronger than those. Then you must remember never to use adstringents before you have well deterg'd, lest they detern the

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A Supplement to Brugis's

the excrements. Secondly, The Artist is to have an eye to the Nature of the part affected; for his Medicine deterging must be one degree dryer than the part : hot parts require hotter; dry dryer detergers; that fit flesh may be generated: Wherefore in moist parts, Thus drys and begets flesh; but in dry parts it humects and suppurates: Then if your Sarcotic be weaker than is requifite, you will perceive more plenty of matter to be generated; and the flesh will be soft and flaccid: But if it be stronger than needs; then the lips of the Ulcer will be red, inflamed dry, callous, with mordication. Thirdly, The Artist is to regard the Connexa. For a part being hotter or colder than it ought to be by Nature, is to be reduced to it's Natural temper; the air, pain, inflamation and other connexa, are also to be regarded. Fourthly, The Artist is to regard the contrariety of Indications he shall meet with: as for example; if the patient be of a moilt temper, and the part affected the contrary; accordingly there is indicated to the Artilt a deliccative medicament in the second or third degree; for the dryer ought to be moderate: So also ought the age, region, time of the year, constitution of the Air, &c. to be confidered, as I faid before.

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Now if through the neglect, or too long use of Sarcotics, and Epoulotics or Cicatricing Medicaments being omitted, there shall happen an Hypersarcosis, or Supersluous, Spungy slesh, which is a Solution of continuity complicated with magnitude augmented; you must take it away with vehement dryers, in the fourth degree; not that they are to be so in their own Nature; but in respect of the part affected; whence, to some bodies epouloties prove catheretics: and they ought also to be sharp and deterging: Such are all kinds of Ink, Alum. Ung. Ægyptiac. &c.

Now the Artist having removed all accidents and filled the Ulcer with good flesh, he hath no more to do but to cicatrize it; that is dry it and skin it up: Which because Nature cannot perform, or regenerate another skin, by reason of it's hardness; she therefore substitutes a certain callous substance. very like the Natural skin in lieu thereof. So that your cicatrizers must be of a drying, stiptic quality; that they may absume all moisture; then they must be also of an adstringing Nature that they may contract, without manifest heat and biting; for those Medicaments with deficcate, with morfure, are convenient only for hard, ruftic, robustic, bodies, as Alum, as ustum, &c. and are of a near E. 2. Nature

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Nature to Catheretics; which are only proper for an Hypersarcosis. I said they must be of a drying, stiptic quality, without mordication; fuch as are your Sarcotics in the first degree; and your Glutinaters in the fecond; and your cicatricers in the third degree do also dry; which is to be understood concerning the part affected, for to Women and Children, &c. and small wounds, milder Cicatricers will fuffice; which in other harder bodies would be only Sarcotic: ergo they must be drying and styptic, as Galla &c. the others as Alumen, Vitriolum. &c. perform this part by accident, as being of an hot, igneous Nature, and colliquate the flesh; so ought to be first burnt and wash'd indeed before the Artist use them; and then but in a fmall quantity: And here the Artist is to take notice that he is to use his Cicatricers before the Wound or Ulcer be altogether equal; because Nature always generates flesh; and so his Cicatrice will be deformed; the most effectual Cicatricers that I know of are these following. Diacalcitees dissolved in the deepest red Wine, and mollifyed with ol. myrtillor. calx lota, and brought into an amquent With ol. rosaceum. Pulvis plumb ust. and loti, is excellent to cicatrize malignant and Cancrous Ulcers. 4. Plumbi, Tutic, aris, alumino

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aluminis, ustorum & lotorum, a. 3 ss. Sang. Dracon. 3i. F. Pulvis. Or make them into an Uuguent in a Mortar, with ol. rosar. & pauco aceto. Or 4. Cortic. mali granat. Thuris, a. 3iii. Gallar. Aristoloch. a. 3ii. testarumo vor. calcinat. 3 ss. croc. martis. 3i. Borac. 3i. pumic. usti 9 ii. Coruss. Lytharg. Tutiae, a. 3i. Aloes, 3ii. F. pulv. S. A. or with hony and astringent wine; or with ol. myrtin. & colophonia, F. Unguent. adding Scoriam Ferri, cum Antimonio & calcitide; which are also good of themselves being dissolved in stiptic wine. Or lastly, 4. Calc. viv. Alumin. Cortic. granator. an. 3vi. thuris, gallar. a. 3iv. cera, olei, a. q. S. F. Unguent. S. A. This is for sordid and putrid Ulcers; having first apply'd Caro salsa porcina.

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Lastly, Caustics and Escarotic medicaments burn and make crusts, absume hard and callous things in the Flesh; hot in the fourth degree; of a thick and terrene substance; but according to the Natures of Bodies, and staying upon the part, the same Medicine may be called a vesicatory, catheritic or escarotic: For those which are vesicantia in hard Bodies; are escharotics in soft: and those which are Catheretics in soft bodies, are epoulotics in harder: see then of what weight the discerning

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between body and body is to the young Artist in his practise. Your Caustics are made of Lapis infernalis, Sope and quick-lime, to the consistance of an Unguent spread upon lint and applyed between two Emplasters, as broad as you will have the Eschar to be.



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VADE MECUM:

OR, A

COMPANION

FORA

CHIRVRGION.

FITTED

For Sea, or Land; Peace, or War.

Shewing

The Use of his Instruments, and Virtues of Medicines Simple and Compound most in use, and how to make them up after the best Method.

With the manner of making Reports to a Magistrate, or Coroner's Inquest. A Treatise of Bleeding at the Nose, and directions for Bleeding, Purging, Vomiting, &c.

By Thomas Brugis, Doctor in Physick.

Being amended, and augmented with an Instiflution of Physick, and seven New Treatises, viz. of Tumors, Wounds, Ukers, Fractures, Diffusions, Lues Venerea, Anatomy.

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By ELLIS PRAT. M. D.

' The Bebenth Cottion.

London, Printed for B. T. and T. S. and Sold by Fr. Hubbers, next the Crown Tavern in Duck-lane. 1689.

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K.12.66 Young Chiam on's MICULT CURES

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the first common, and coronal suture, it includes 2 cavities deriv'd to the nostrils; 2d, 3d. are call'd finciput, separated above by the fagittal, below by the scaly false suture; before by coronal, behind by lambdois. The temples are under these, scaly upward, downward hard and rough, call'd petrofa. In this part, note 4 apophyses, mastoid, styloid, sygomatic, 4th in the sculls inner basis, and may be call'd auricular, in this are contein'd the care 3 cavities : 1. Porus auditorious, outer. 2. Concha, comprehends the inner air, and 3 officles, malleolus, incus, stapes, and a hole passing to mastoid's hole. This hole's end opposite to the drum, hath 2 holes boar'd in'tithe greater called the oval window, the ingress to the third civity. 1: Labyrinthus, from its various turnings, returning to the same cross-way; the other narrower, is the entrance to the fourth cavity. 1. Cochlea, from its rough and writh'd figure: the 6th bone's call'd lambdoides, and feparated by the lambdoid future: the 7th sphenois, its inner table swells with 3 apophyfer, call'd clinoides, one hinder 2 fore, reaching to the optic nerves rife : the cavity between these is call'd sella sphenoides; its outer table hath 4 apophyses, 2 hollow like a ship, call'd navicularis, pterygoides by Galen; the other go to the temples, temporals: the 8th ethmoides, by Galen Spongides, confifts of feven

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feven several portions: 1. the table board like a fieve, from which rises an apophyses within the scull, the 2d portion, call'd crista galli; without the nostrils from the same table depends the bony plate severing the nostrils, called septum narium, and is the 3d portion: to this stick 2 spongy bones, which make 4th and 5th. part; the 6th and 7th portion is a thin, plain, smooth, like a thumbs breadth; it makes each orbits inner side nigh the great canthus; below it covers 3, tometimes 4 cells, reaching from the great canthus, to the inmost orbit.

The upper jaw hath 5 bones on each fide, one without a fellow suffeins the palats midle, i. Galen calls melon. it may be call'd zigomaticum, from making zigoma's greatest part, the eyes less corner, and great part of orbit : now zygoma's a bony semicircle made of 2 apophyfer join'd in the middle by the oblique future; one proceeds from petrofa, the other's part of the cheek bone. 2. Os unguis, officulum lacrymale, os ægylopis rests in majori cantho. 3. Os maximum, makes the teeths middle part, compleats the lower orbit, and the nofes inner part: 4th forms the note; fo 4 bones form the nose, 2 proper mention'd last, 2 common, part of the maxillary; late Authors add a bone between sphenois and palatum, not unknown to Hippocrates, call'd Vomer, reaching the inner nostrils.

nostrils, fusteins the noses bridge, to which

'tis join'd by suture, or harmony.

The orbitary bones are not proper, except the ungular, but portions of the scull and upper jaw. I. Frontal, makes its vault. 2, Part of sphenois sited in orbis deep outer side ad canthum min. 3. zygomatieum makes canthus min. and the orbits pavement. 4. maxillare. 5. lacrymale. 6, Os ethmis scaly table, makes orbits other side ad maj. canthum; these bones are discern'd within the orbit, with their pro-

per and common futures.

The lower jaw in adults is one bone, in which its basis and its ends are noted; basis middle part, hollow within, bunching without, is call'd the chin; its ends are call'd corners, each horny end sends out 2 apophyses, one sharp, call'd corone, receives muscul. temporalis tendon; the other embylodis, it may be call'd articulatoria, for serving to the jaws conjunction. Below these is a noted inner hole, by which vessels are scatter'd to the teeth; part of which goes by the chin, by a narrower and outer hole, dispers to the lips muscles.

The teeths basis is that part without the gums, their root's within, hollow to receive a small vein, artery and nerve; their root is various in number and sigure; that of the cutters simple and streit, distinguished by a cleft.

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for firmer flicking: fo is the dog teeth, in the upper grinders 'tis triple and crooked, because they hang down; in the lower double, and fometimes triple: their number in full age is distributed in 3 orders, as to fite and bigness; the first 4 are call'd cutters; on each fide one join'd next, dog teeth; the rest 8, or 10. grinders; they are plac'd in by gomphofis.

The trunk, the sceleton's 2d part, comprehends the spine, and bones adhering, 'tis made of spina, and thorax; spina or rachis is a bony pipe, the spinal marrows conceptacle, reaches from caput to enceyx; it confifts of many bones, for fecurity and action of bowing, &c. cail'd vertebræ; in each note two parts: 1. inner thick, round, call'd corpus; the other outer, swelling with diverse apophyses, wants a name; of the apophyses are 3 differences : 1. freit, oblique, transverse, the hinder's sharp, call'd spina; the lateral and transverse is double, the oblique fourfold, by. which the vertebre are join'd by a compound gynglymum, whereto 3 bones are requir'd; of the oblique apophyles two bend upward, two downwaad; fo all the vertebra swell with, 7 apophyses. The whole rachis is parted in 4, neck, back, loins, os facrum; the neck hath 7 vertebre, back 12. loins 5. os facrum is one, or 3. in adults.

In the necks vertebre, all the transverse apophyses are perforated, to give way to the ascending cervical veins and arteries, hollow in the ends to convey the soft nerve; the sharp are horned, for the rise and insertion of muscles; but the upper 2 have another structure for the heads motion; for the sirst wants a spine, and a thick round body; the 2d emits an odontoid apophysis; all the necks vertebre are strictly and intricately join'd, less they should slip asunder in the necks vehement motion.

The backs vertebræ are alike, their apophyfes solid, and continued without any hole: the 12th or 11th vertebræs articulation differs from the rest, these cohere by ginglymus, they by arthrodia; so the motion of the whole spine, i. slexion, extension, obliquation is perform'd upon that vertebra.

The loins 5 verteb. apophyses differ from the backs, for the hinder, or spinæ, descend not as the backs, are streit and broad; the transverse are longer, standing initead of Ribs.

Os facrum is under the loins, and seems one simple bone, yet boil'd long in oil, it divides in 5 or 6 parts, to its end's join'd a three, seldom sour clest, or cartilaginous bone, call'd coccyx, we the crupper bone.

Thorax cum spina make the sceleton's trunk; thorax is made of 4 kind of bones; sternon before; the nue the spice end ing

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before; the Ribs o' the fide; clavicula o' top the back behind; Iternon in adults is a continued bone, distinct by 3 or 4 transverse lines, the footsteps of ancient divisions; more confpicuous inner, than outerly; on this bone's end depends the apphoid griffle, representing a shield in brutes. xii Ribs on each side; 7 upper call'd true, because join'd to sternon; the 5 lower false, because not join'd it; but to a griffle to give way to tumors of the liver and spleen, and yield to diaphragma's motions. The clavicles are on each fide one, in figure like an Italian S. join'd between acromium and sternon, they keep scapula in its fite, left it fall upon the breaft.

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In Omoplata many parts come to be noted, very requifite to the rife and infertion of the muscles; part of it stretch'd along the back, is call'd bafis, whose ends are call'd angles, one upper, the other lower. Bafis sides are call'd Ribs, of which the shorter, thinner's call'd the upper; the longer & thicker, the lower; its whole trapefian breadth's call'd mensa, whose outer part is gibbous, inner hollow, to receive a muscle. A famous process or apophysis ascending upwards from its basis, is called spina, whose broad end is called acromion, which, according to Hippocrates and Galen, is a distinct bone, griftly in children, in adults bony, which after 20, and fooner, is chang'd

chang'd to an apophysis, glued to spina. Fosfula stretcht on each side spina, is call'd interscapulium, one upper, the other lower; but spina's middle bunch call'd pterygyum vulgarly; scapula's other great end, under acromion, and opposite to basis, is call'd cervix; in it note apophysis coracoides, made for security and firmness of the shoulders joint: the necks ca-

vity's glenoides.

Manus depends upon scapula, divided into 3 parts, bumerus, cubitus, and extrema manus; in humero note 2 ends, for infertion of muscles; the upper, call'd Caput, which a membranous ligament from glenois mouths cavity compasses, besides the aponeuroses of 4 muscles wherewith 'tis involv'd; a little below Caput, the orbicular narrowness is call'd the In the head is engraven a longish chink, by which biceps nervous head is drawn; in the arms other ends the trochlea, about which the cubit's turn'd; about trochlea are 2 cavities, the inner ampler than the outer; in these are receiv'd the cubits apophyses, call'd corone; 2 o'th' arms apophyses are join'd to trochlea, call'd condyli, one lower, inner, the other higher and outer.

Cubitus is made of 2 bones, one higher, shorter, call'd radius; the other lower, greater, under the former, keeps the name of the whole, atd is called eubitus, by some ulna: 2

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bones were necessary here, because of the double and contrary motions, which could not be perform'd by one bone join'd by ginglymos; for that suffers only flexion and extension, not inversion, which radius join'd by arthrodia performs. Radius!s obliquation cannot be perfectly discern'd, unless in a new carcafs, all the muscles remov'd: for then, with great admiration, you'll see radius turned upward and downward upon cubits being firm; and also mov'd with cubitus, when bent and extended, In cubitus ends is something worth note; for in the upper end is the figmoid cavity, which embraces the arms trochlea; about this 2 coronal apophyses, the lower's call'd olecranon; in the lower part cubitus emits the styloid apophyse; these bones are join'd together in their ends, by that ginglymus made of 2 bones, going in one another in distant places.

Extrema manus is divided in three parts, carpus, metacarpus, and phalanx digitorum, because they soem to stand in battel array.

Carpus is made of 8 bones distributed in 2 orders, join'd among themselves by symphysis, and, its species. harmonia; therefore carpus's bones are mov'd among themselves obscurely, or not at all; the first order with the lower cubit makes arthrodia diarthrosis; the same order's knit with the 2d order of carpus's

bones

bones by arthrodia; which 2d order is join'd with metacarpus by arthrodia synarthrofis, therefore this joint's motion is either none at all, or insensible, but the first order with the

2d is mov'd obscurely.

Metacarpus is made of 5 bones, if with Riolanus we add the thumbs first bone, which others reject; because obliquely added to metacarpus, and manifestly moves, against the nature of metacarpus's other bones, which with carpus make arthrodia, with the singers enarthrosis; yet metacarpus's 4th bone susteining the Ring singer, moves manifestly. From each bone of metacarpus is each singer directly reach'd out, pollex excepted: the singers consist of 3 bones join'd by ginglymos, so are only bent and extended; their oblique and lateral motion depends on the first bones enarthrosis cum metacarpis.

The greatest bones of the body which join'd with os facrum, sustein and erect the trunk, are call'd ossa ilium; in adults continued, in children tripartite, and retein the ancient names, though the sootsteps of divisions are obliterated: the bones broader part making almost its whole breadth, and reaching ad medium acetabulum, is call'd os ilium; the upper half of the other part is call'd os pubis, the lower ischium: of these 3 parts

the great basin is form'd.

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In these bones some particulars are to be noted; Anatomists call os ilium's external face Dorsum, the upper, inner, hollow, venter; the end cofta, inner, and outer brims, call'd lips, or brows; fo as one's inner, the other outer; its bunchy end join'd to os facrum the binder Spine; its other end towards acetabulum, the fore upper Spine; under this is ancther, call'd the fore lower Spine. In os pubis's a spine near symphysis, by its joining a top with its other fellow: in os ischium's a spine and

bunch, the tubercle's call'd condylus.

The feet, as the hands, are divided in 3 parts, the thigh, leg, and foot; the thigh bone is the greatest of the whole body : now its ends, in the upper is caput, round, under which is a flender part call'd cervix; from which are 2 apophyses produc'd, to which musculi rotatores are fixt, therefore call'd trochanters; the fore's call'd minor trochanter, the upper lateral, major trochanter. The thigh's other end is parted by 2 condyli, the middle cavity being left, which admits the legs middle and bunchy apophyses, and vicifim femur's condyls are received by the legs cavities, by a loofe ginglymos : this articulation's fore-part is call' genu, the hinder poples. Parella, a small bone spred over, and cleaving to no bone by article, fixes and strengthens this articulation.

The leg is compos'd of 2 bones, the greater and inner is call'd tibia, the leffer and outer fibula: tibia is articulated to femur by ginglymos; fibula sticks to tibia, not touching femur. Sura and tibia's lowest and bunchy parts are call'd maleolli, tibia makes the inner.

fibula the outer ancle.

Pes is divided in tarfus, metatarfus, and toes; tarfus's made of 7 bones: the first join'd to tibia's call'd oftragalus, or talus; that under this pterna, 3d join'd to astragalus, scaphoides, 4th to which is join'd the heels lower and fore-part cuboides; the other 3 have no names, or calcoidea. Metatarfus is form'd of 5 bones, answering manus metacarpio. Digiti confift of 3 bones, except the greater, which have only 2; certain officles fill and frengthen the interjunctures of manus and pedis digiti, chiefly in adulrs; of uncertain number call'd Sesamoidea. In the great toes 2d article, are 2 officles worth note, and big enough; always found in all cacasses, and are to be added in fabricating.

Thus have I given thee a short Anatomical Treatife, where I have, as nigh as possible, kept to the doctrine of the Ancients, after the manner of my ever honoured Master, Dr. Riolan, whose Enchiridion Anatomicum I have Euchiridioniz'd, if I may so say, for thee.

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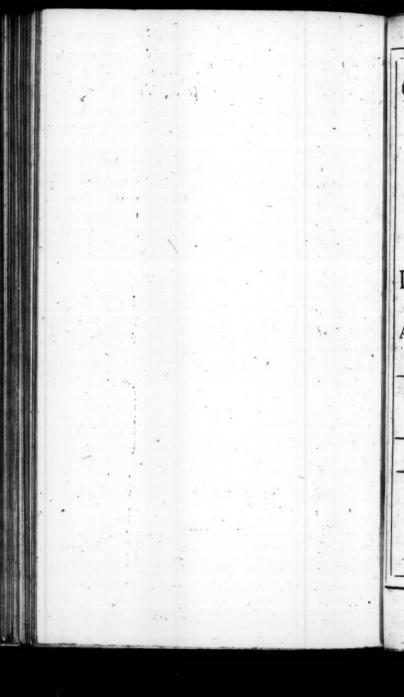
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If thou ask why so? I answer, first, I know not a better the world yet hath produc'd for young Students; and himself is stil'd, by our English Hippocrates Dr. Harvy, Corypheus Anatomicorum; and is said by Dr. Primrose, to have persected Anatomy; lastly, in his last Edition of his Anthropographia, he disowns all his other Anatomical Treatises, except his Enchiridion. Secondly, I did it to free so great a Person from a many Errors, committed by a Translator into English.

Courteous Reader, what thou find'st'either literel or more material, be pleased to correct and pardon: For bumanum est errare.

FINIS.



Chirurgus Methodicus;

OR, THE

Young Chirurgion's

CONDUCTOR

THROUGH

The Labyrinth of the most

DIFFICULT CURES

Occurring in his whole Art; And whereby he is distinguished from Empiricks & Quack-salvers.

Being a SUPPLEMENT to Brugis's Vade Mecum.

By E. Pratt, M. D.

LONDON,

Printed for T. Sambridge, at the three Flower-de-luces in Little Britain. 1689.

and cloudy as Being LSUPPLESTEN T. to Burney Vel Meyer. EVETTALE M.D. LONDOM: Printed for T. Sambidde, at the Linder in in. 1689.

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PREFACE

TOTHE

Young Artist

IN

CHIRURGERY.

be call'd a Commentary upon the third and fourth
books of Galen's Method of Physic,
which treat, principally, of the cure
of Ulcers; but if the young Artist
hall be ingenious he'll find it to be
calculated, as well for the cure of
other diseases that belong to his Art,
viz. Wounds, Tumors, &c. Now Galen,
the Prince of Physitians, next to
A Hippocrates

The Preface

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Hippocrates, having, in his first and fecond Books of his Method, fummarily declar'd; that in the cure of difeafes the Physitian ought to proceed by Method and Indication; bravely disputing against the Empyrics of his time; and all fuch as cure by adventure: In his third Book he fhews particularly by what fort of Indications the faid Method is guided. Wherein he disputes learnedly a gainst that Sect which are call'd Methodists, or Thessalians; who, in the cure of all diseases, follow'd but one Universal Indication which they took from the Essence of the disease. Whom to confute he frames Examples from the Method of curing Ulcers: Wherein, according to their diversity, he clearly demonstrates that the Artist hath need to observe divers indications: And so thereby confuting the Empyrical and Methodical Sects; he frimely establishes the Dogmatical practite of Phylic. And

to the young Artist.

And this is all I thought I need to and premise; only defiring the young ma-Artists to be studious; that thereby difthey may come to be famous; and do progood in their generation. And that on; thou may'ft so be, and not spend thy руtime a miss, as our famous Dr. Read ure aid, that if any had a mind to mipend good hours let them read Paracelsus's Chirurgery: I shall recommend these few Authors following to y a-Mebe read by thee. First then if thou understandest not the Latine tongue, thou mayst procure to thy felf, the works of our famous Dr. Read, latey completed and perfected by an ingenious London Physitian; or cook's Marrow of Chirurgery, the last Edition in Quarto, or the voluminous Book of Ambrose Parey; Mr. Wiseman's Observations are inge-Rious: Then for Latine Authors Hieronimus Fabricius ab Aquapendente, Scultetus, Tagautius and Riolanus

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The Preface

lanus may be fufficient; by reading ply which Authors thou wilt fee how in great Art is requir'd in the cure of bed Wounds, Ulcers, &c. more than Em- in pyrics, Quacks, and your old women the in the Country, are sensible of; or the can comprehend; as first 'tis to be par enquir'd whether an Ulcer, for Ex- ces ample, be simple, corroding, sordid, be circumstances, renders the Art, fallidet ble incertain and conjectural. All dic which cannot be known but from the of writings of learned Physitians and the Chirurgions; for Galen tells us, in man his Method, that remedies are to be va- All ryed, according to the difference of per- gen fons, parts affected, &c. for in some but cases a deterging Medicine will prove fuppurating; as Thus; and in others do the fame is only Sarcotic: And the thy fame Gaten gives us an Example, of a Ad Chirurgion, who when he faw great my putre-taction in an Ulcer, dayly apply'd

to the young Artist.

ing ply'd stronger detergents, as Ærngo; ow and so the putrefaction grew greater, of because the remedy was too strong. So Em an Ulcer in the thigh requires another remedy than in the breft, or oor ther part, by reason of difference of be parts : fo that you fee all the differen-Ex. ces and causes of Ulcers, &c. are to lid, be perfectly understood; also the ight Method and use of suppurating, deterging, sarcotic, and epulotic Me-All dicines; and the reason of varying the of them, according to the Nature of ind the Persons and Parts, Ages, Tempein mments, and other circumstances:
va- All which are acquir'd only by dilier gent labor and study; so that it is me but a Vulgar error to think that these we illiterate people can understand, or ers do any thing confiderable, in this wor-the thy Art of Chirurgery; but only at f a Adventure : For all they pretend to fo at much skill by their Hyperbolical and Romontic

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The Preface &cc.

Romantic promises, and pretences. And now it is time to bid thee Adieu.

Chirurgus

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Chirurgus Methodicus;

OR, THE

Young Chyrurgion's CONDUCTOR

THROUGH

The Labyrinth of the most Difficult cures occurring in his whole Art; and whereby he is distinguish'd from Empyrics, and Quack-Salvers.

CHAP. I.

Of the several Sects of Chirargions.

Efore we begin to Treat more fully concerning the explication, of the Nature and Excellency of Method, and its Indications, &c. you are to understand, that in the Art of Physick, and by Consequence in Chirur-B 2 gery

gery, which is subordinate to Physick, there are three forts of Sects, whereof Galen makes mention in his Method.

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Now a Sect is a Collection of Men. which are of the fame Opinion; but different from others, and those in Physick are Methodical, Empyrical, and Dogmatical, or

Rational.

The Methodical, are so call'd, because they use but few Rules, and Precepts; the which they judge fufficient: Wherefore they fay that the life of man is long, and the Art of Physick short, and blame the admirable Hippocrates for writing to the contrary in the first of his Aphorisms.

These say that there are but three forts of Diseases, to which the Body of man can be subject to: The first, by astriction of. Atoms, or unseparable Substances; whereof the Body of man, (according to their opinion) is compos'd. The fecond, by Relaxation of those Atoms; and the third is compounded of both: in fuch fort as some Atoms, are relax'd, and some compacted more than either the nature of the Body, or the part requires. Now that you may the better be able to understand the nature of this Sect, you must know that it had it's Original from the Philosophy of Democritus and

and Leucippus, who were persuaded, by fome apparent Reasons, that the Elements and Principles of all natural things were very fmall, infeparable fubstances, which they call'd Atoms, which had neither first, nor fecond, nor other qualities; but according t) their feveral fituation, and positions, all qualities had their Original; fo when any hot thing became cold, that was because the Atoms, whereof it was compos'd, were alter'd and transported: Upon which foundation the Methodics conflituting their Art, they fay that these Atoms, are the Principles, and Elements of the Body of Man; and that the health is in it's Effence and Perfection, when the faid Atoms are in a certain and measur'd distance and polition, the which if it was alter'd by Approximation, or unmeasured distance, then succeeded two forts of Diseases, the third, of the faid two being mixt, wherein is a relaxation of some Atoms, and a Constriction of others. According to this theory they founded their Universal Method, upon three Principles, which they call'd Communities; which were deduced from the general Principle of all the Art of Phylick, which is, That every thing is Cured by it's contrary: The first of these is, that a Dif-B 3 eafe,

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itus and case proceeding from Astriction of the Atoms, requires relaxation: The fecond is that a Disease caused from the relaxation of Atoms, requires Aftriction: And the third is compos'd of both: then making many o-ther particular Communities, whereof Galen makes mention often in his Method; as that a fimple Ulcer requires Union, an hollow one repletion, and an Ulcer with excrescence of flesh demands it's Consumption, and so of the rest. Now these Communities, though they are the first Judications, yet they are not a part of Surgery, or but a very little one; because they are known to the very Vulgar, of which more hereafter. Wherefore this Sect is often reprov'd by Galen the Prince of Phylicians, next to Hippocrates, in the third book of his Method.

Themison began this Sect; of whom Juvenal speaking of old Age, says it brings with it, as many Discases, Quot Themison agros autumno occiderit uno. Thessalus Trallianus compleated it: After whom were Dionysius, Antipater, Aphrodiscus, Ephesius, now of this Sect there are but

few now a days.

The fecond Sect is call'd Emprical, which took it's Name from experiments, because your Empyrics contemn all Reason, saying, that the Nature of Humane bodies and medicines

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are inscrutable and incomprehensible by Humane reason; which they say evidently appears, because the most famous and excellentPhilosophers and Physitians, that ever were, after great labour, and most diligent inquisitions, could not comprehend what the body of man was compos'd of, nor other things produced by Nature. For if their Reasons, who fay, that the body of Man is made of the four Elements, be well weigh'd, they may be found probable, 'tis true; but they will not be found to be necessary and inrefragable. And so the Opinion of Democritus, and Asclepiades is probable; who tell us that all things confifting by nature, are composed of an infinite number of Atoms, of the like Nature, Name, and Reason. From this controversy and contrarity of opinions, between fuch excellent Philosophers as Hippocrates and Asclepiades, concerning the first structure and composition of Humane bodies, the Empyrics conclude; that he would be accounted but a rash Person, that should dare to undertake to be Judge of the truth of their judgments. Wherefore, according to their judgment, fince it is fo that our Nature is unknown, it is better to follow and observe Experiments; and to build the Art of Phylick upon things known by our Experience; mifprifing

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priting the Knowledge given us by reason of the Elements, the Temperaments, &c. or from Diseases, and their Causes, and Remedies.

The Empyrics then constituted their Art of four things; of Nature, Fortune, Revelation, and Imitation.

As to the first, The Empyric seeing a man taken with a vehement Fever towards the removing of which he ordered no remedy; and yet it terminated by a bleeding at the Nose, or some other part; which proceeded from the strength and providence of Nature; than he judges and referves in his Memory, that to a man taken with fuch a like Fever, Phlebotomie by Art, must needs be necessary, or at least conducible. In like manner the Empyric, takes part of his Theorems from the observation which he makes of the Nature of Brute Bealls; as when from the Imitation of the Stork, he makes use of Clysters. Also when he useth certain Medicines, which he hath known to be profitable against Venome; the use of which he was shewn by Beasts.

Then for the second, If any one being troubled with a pain in the hinder part of his head, by Fortune fell upon some stone which caused a Flux of blood from the forehead Vein; by which his pain was appeas'd,

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then the Empyric, being taught this by Fortime, deduces a Theorem of his Art, that Phlebomy in the Vena Frontis, is profitable for a pain in the hinder part of the head: and if you shall tell him that Hippocrates hath made an Aphorism concerning the same; he will answer you, that Hippocrates had the knowledge thereof, not by Reason, but by Experience alone.

Concerning the third, That which they mew from the Revelation of their Gods, or their Masters, or from Dreams, (which Gales did not always contemn in the Cure of Diseases,) was a Rule to them, chiefly when they had submitted it to the Touch-stone of Experience, which they had found conformable to them.

For the last, the Empyrics make mutation and imitation from the similitude of one disasteto another, of one part to another, of one remedy to another, from some likeness inducing them thereto: The which we see done often, as when they learn'd the use of Ung, suracenicum, in the Cure of the Venereal disease, which was first invented for the Cure of the lich. So a long time before the said disease was becommon: and we do so likewise, when in malignat tilcers of the said disease, in the saices, we open the veins under the Tongue B

after having open'd the cephalic, which hath been found to be profitable, as in Angina.

All which may be exemplify'd in feveral particular Cases which I omit, to shun multiplication of words without necessity. This Empyrical Sect, misprised the Anatomical Art of Humane Bodies; as their Brethren the Empyrical Chymists do at this day, against the opinion of the Dogmatics, as a thing execrable and cruel, which hath always been (according to what shall in the next place be prov'd by the Dogmatics) of grand efficacy in the Cure of diseases, and for several other Reasons brought by Galen, de usu partium, 1.17.c.2. and alleged by Authors in Chirurgery.
The chief of the Empyrics were Acron Agri-

gentinus, from Pliny, 1. 29. c. 1. Philinus Cou, whom Serapio follow'd as Celfus fays; Apollonius, Father and Son, Glaucius, Menodoms, o Sextus Heraclides, &c. but Crito, Philistrio and Serapio, were after, as in Lib. Introductor.

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The third Sect, is that of the Dogmatics; these enquire by Judgment and Reason, into a the first Composition and true Elements of Humane bodies, belides the similar Parts which are the fensible, but not the true Elements of the faid Body; into the Temperaments the proceeding from the divertity of mixion of the c Elements; into the faculties proceeding from the ngina.

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which faid temperaments and their operations; into the Nature of diseases; their Causes, and Symptoms depending upon them, and by which they are known. Then they make enquiry into the Nature of Simples; and the manner of compounding them by Art; the fit time and right we of them, which are things that require a long time; and the which to comprehend, the life of one man alone would not be sufficient, if it be compar'd with the invention of them; next wherefore Hippocrates said most rationally, that Man's life is short, and the Art of Phyfick long; the which is not to be understood in a strict Sense as many do. For he does not mean, that a man cannot, with help of the Labors of the Ancient Philosophers, and Physitians comprehend the Art of Physic; but that he cannot, by reason of the shortness of his life, invent it and acquire it compleatly without help.

And now, although reason for the most part, be the director of this Dogmatical Sect, and the Dogmatics; yet if they know by experience, some Medicament, of the effect and virtue whereof no Reason can be given, (as Ele- are those which operate by an occult quality) nents they do not reject the use thereof, but acof the comodate it to their Art, to render it thereby n the the more rich, and abounding in remedies,

and

and thereby the more eafily to attain to the pretended end of their Art; which is health.

The Prince of this Sect, as the most excellent was Hippocrates the Oracle of Physic, then Erafistratus, Diocles, Herophilus, and divers other great Philosophers, well exercised in Natural Philosophy: the chief of which and most praise worthy of all, next to Hippocraves, was Galen, who with his most learned Commentaries hath explicated Hippocrates, diftinguishing things that before were confus'd, and fupplying what was wanting, fo that he may defervedly be called the fecond Prince of

Physitians.

These say, against the opinion of the Empyrics, that Anatomy ought to be practifed, even fometimes upon living bodies: The which Herophilus did, who obtein'd, from Kings, men that had merited death for their Crimes, and diffected them alive, thereby to know feveral inward operations, which are abolished in dead bodies; as the inward motions of the Vital Parts, the Diaphragma, Lungs, &c. of the Comprehension which the stomach makes of the Food, while it transmutes it by is coction. And they fay that it is laudable, by the torments of a few wicked Men, to profit the health of innumerable Virtuous 0

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ones. And it's very like that they gave them some Narcotic, or Stupefactive Medicines, to abolish or diminish the Sense, and consequently the pain; which hath been sometimes counselled to them that were to be cut for the Stone in the Bladder. The Dogmatical Phisitians, Anatomize dead bodies also, thereby to acquire the Knowledge of things of grand import and profit, in the Art of Phisic; as

First to know the substance of each part; as that the heart is of a Musculous substance; the livers fubiliance as it were blood coagulated. Secondly, The quantity of a part; as that the Liver is of fuch a magnitude and greater than the Spleen. Thirdly, to know the relation of the parts; as that there is a communication between the Stomach and the Brain; and likewise a Sympathy between the Oifice of the Stomach and the Heart, by reason of the Arteria Aorta; which, mounting above the Spina, affociates it felf with the faid Orifice: And from this Theory proceeds the Knowledge of difeases which come by confent, and which are Primary; which is a thing that imports very much towards the Cure of diferees. Fourthly, To know the quality or temperature of each Member, by the help of reason; as that the Liver is hot and moist; because it's of a fanguine complexion

plexion; as that the bones are cold and dry because they are exsanguos. Fifthly, to know the number of the parts; as that there are two membranes of the Stomach, fix lobes in the Liver, two Lungs, &c. Sixthly, to attain to the knowledge of the figure of each part; as that the Liver is partly hollow; and in the other part where it reaches to the Diaphragna 'tis Gibbous: As also Seventhly, to know the Action and Profit of the parts, as that the Heart is the Principle of the Vital Faculty and Motion. Likewise that the bones, although they have no action, yet they are of profit to the body, either to suftein it, or defend the Noble parts, as the Cranium does the Cerebrum, and the Pectoral bones the vital parts. Then Eighthly, Anatomy ferves us whereby to know the Situation of the parts of the body; as that the Liver is situate in the right Hypochondria, and the Spleen in the left, &c. Ninthly, It helps us to know what part is affected and offended in a disease; as that the Yellow Jaundies proceed from the Liver, and the Black from the Spleen; the Pleurify proceeds from the membrane adjoining to the Ribbs, &c. which were all Collected from the documents of the great Physitian Galen, by Alexandrinus a learaed commentator upon Hippocrate's book of Popular noixair

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of ar Popular diseases. Lastly, it is from Anatomy that all the chief improvements have been made in Physic; as the circulation of the Blood, &c. as Dr. Goodal hath learnedly demonstrated against the Chymists at this day. And now because this best of Sects proceeds by method in the Cure of diseases, and by consequence by Indications, which are sometimes Simple and sometimes Complicate; let us now treat of them, succinctly and in Order.

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Of Method, Indication and Complica-

MEthod then is, as it were, a conduct or fafe and fure way, whereby to come to fome Intention: Or, according to Galen, it is an Universal way to attain to the truth which is common to divers particular things. Now to the constituting a Method of curing difeases, there are two things required: A direct order of Indications; and an artificial and legitimate administration of Remedies.

Indication then is an infinuation, fign or instruction of what is to be done: So that

Indication

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Indication shews the invention of that which is to be done: for to invent a thing by Indication is to begin at the Nature of a thing; then to invent without Experience, that which is consequent to that Nature. Now the invention of things found out by Indication, is founded upon four general Rules, whereupon depends the whole Art of Method: Whereof the First is, That that which is according to Nature requires or indicates its confervation. The Second, That, that which is against Nature, indicates its Ablation. The Third, That conservation is performed by things of a like Nature. The Fourth, That Ablation is caused by things of a Contrary Nature.

Now these general Rules are particularized according to particular or special Indications; as that an hollowUlcer indicates replection an hot intemperature refrigeration, and each of these special Indications are deduc'd from the two general; then indication is taken from each of the three things, upon which all speculation in Physic is founded; that is first from things Natural, as the faculties of the Body, Sc. Secondly, From nonnatural things, as the disposition of the Air; Sc. Thirdly, from things against Nature, as Diseases and their Causes, Sc.

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* As for Complication that's an Aggravation of several things, whereof each proposes it's Indication: By which definition you may perceive that complications are not mentioned but in regard of Indications. And as Indications are taken from things Natural, non Natural, and contranatural; fo complications are taken from the faid things, and in feveral manners. First, From things natural, and unnatural; as from the faculty, and the difease: Secondly, From things Natural and non Natural; as from the Temperament and Complexion of the Patient, and from the disposition of the Air which encompasses us. Then from divers things against Nature, as in wounds and apostems, as an Ulcer with a Varix, Fluxion, or Diftemperature. And as concerning the complication of a difease with a Symptom, that is reduc'd under the complication of a disease with it's cause: For a Symptome, as a Symptome, indicates not; wherefore it cannot be faid to be complicate; but is as a cause when it exceeds. And because it is not enough to know these things by Theory only; but that we must accommodate them to the practic part, which is the end of the Theoric; we must therefore, in all our practife, regulate the aforefaid things by certain Rules deduc'd from Galen in his Seventh

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We must then consider in complications, the most urgent thing, the Order, and the cause. This Artifice is of grand efficacy; and is as it were, a thred to lead the Artift out of the Labyrinth, or intricate and confused Maze of complications; which otherwise are very difficult to regulate, chiefly to your Empyrics: First then you must consider the most urgent; which is that whereupon depends most danger: As if there be a complication of an Apostemation, Flux of Blood, Intemperature, Convulsion, Pain and Ulcer, then if Convulsion be the most urgent, you must first direct your intention to that, without neglecting your other Indications: And as there be feveral Indications, whereof one is most material, so must your remedy be contriv'd, as having always respect to that. Secondly, You must consider the Order of complicated dispositions: For sometimes their Complications is fuch, that one requires to be removed before the other, and nothing can otherwise be done; as when an Apostem and an Ulcer happen to be together in one part, it is necessary in the first place that you remove the Apostem; for he that shall attempt to Cure the Ulcer first, will attempt

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an impossible thing, in regard of the Order that belongs to fuch dispositions; because the removing the Ulcer cannot be accomplished, except the part which it possesses be healed; which can never be effected as long as there is an Apostem. Thirdly, When there are several dispositions complicated, whereof one is the cause of the other; you must, in the first place, follow the Indication of the cause before that of the effect; which is always Galen's Document; but chiefly 1. 2. Artis medic. As when there is complication of a Varix, Ulcer, and Fluxion; you must direct your first counsell to the Fluxion, removing the quantity or quality, which caus'd it; and then you must betake your felf to the Cure of the Varix, and laftly, of the Ulcer, of which more following.

CHAP.

CHAP. III.

A more particular account of the premises; and of the first Indication.

Ou must know then besides what hath been faid in general, in the former Chapter, concerning Method, that there be feveral forts of Methods; some are proper to the handling of Sciences, and are divided into three kinds, viz. when you treat of Sciences by way, either of Composition, call'd in Greek Synthetic, in proceeding from things simple to things Compounded; or by way of dissolution, nam'd by Greeks Analytic, contrary to the other; or Lastly by the way of Division and Definition; which they call Horistic in Greek; the which kinds of Method are comprehended by Galen in his little Book de Constitut. Artis. The other kinds of Method belong to all forts of Affairs. which are in the management of Man; as the Method of building an House, &c. but the curative Method and fure way of healing is that which is guided by Indications.

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Now this word Indication is proper to Phylitians only, and out of the common use of the Vulgar; for every Art and Science hath it's proper and peculiar Manner of fpeaking. which is not common to others. Method then of curing diseases is conducted by Indications, two manner of ways; viz.by the means to find them out, and by the means of curing by them. The means of finding them out is by the Art of Division; for you may divide them into two manners; but the most common is into three kinds; in dividing each into feveral particulars. The first is concerning things Natural. The fecond, of things Non-natural. The third is of things against Nature; although Galen reduces the two first into one, 1, 3. Meth. c, 8.

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Things Natural then indicate, to the Artist, that they ought to be conserved, by their like; and from this kind the Indication is call'd Conservative; although it be serviceable towards the Cure. As for the things Non-natural they indicate almost the same thing. But then things against Nature they indicate to be removed or prohibited, by their contraries: Now such Indications are of two kinds; for if they be taken from external and primitive Causes, not permanent, because they admonish us to preserve our selves, but

they are called by Galen l. 4. c. 3. Meth, Preservatives; although he dare not call them properly Indications. But if they be taken from the Essence of the disease, or from internal causes, as well antecedent as conjunct, then they are truly and properly named Curative.

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Now there are feveral kinds of Confervative Indications; fome regard the strength and faculty of the Person; to conserve which you must often omit the principal Cure, Others have an eye to the Natural temperature and complexion of the Body; from whence they take the Name; making us to consider whether the body be hot, or cold; dry, or moist, simply: Or whether it be hot and moist together, or hot and dry; or cold and moift; or cold and dry. Moreover whether it be Choleric, or Melancholic; Sanguine, or Phlegmatic. Others confider the habitude, whether it be, delicate, fine; a little Body, or a corpulent and robust, &c. others are concern'd about the Nature, and Complexion of the part where the disease is, from which part the Artist may deduce several indications; as from it's substance, whether it be fimilar, or oganic: If fimilar, whether it be hot, cold, dry, or moilt; or hot and dry, hot and moift, cold and dry, cold and moift: And

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And whether it be fost, as the flesh; or hard, as abone; &c.If Organic, whether it be Principal and Noble, or as a Servant and less Noble; or not Noble at all. In like manner you are to take Notice of it's habit; or to speak better, with Aristotle, of it's natural strength, or weakness; as of it's sharp and delicate sense; or it's dull or flow feeling: As Galen writes 1. 4. c. 7. Meth. Also you are to take your indications from it's Effence and Composition, wiz. from it's form, figure, magnitude, number of it's Parts, of it's Relation, and Situation, and lastly, of it's actions and use: for from all these things ought the Artist to take his Indications in the Cure of the difeafe, which happens to the faid part, to conferve it in it's Natural being, by removing that which is Contra-natural to it: and here one might comprehend with this first of Indications, that which the Artist takes from the Sex, because it is almost one of the things Natural.

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CHAP.

CHAP. IV.

Of the Indications from things Non-Natural

The Indications from Non-natural things, and which are without the substance of the person, are likewise of several sorts: For some concern the Age, which is nigh a king to the things Natural; others bear the name of things which are altogether without the Nature of Man, viz. the Air, as well that of his Nativity, or Country, as that where he lives, and is habituated to it: Likewise the season of the year; as also Education and Custome. From which things, as if they were Natural that is of the natural substance of the Body, the intention is to conserve them; and not to give to the patient things contrary to them.

But here you are to remark that these Indications of the things Natural and Nonnatural, tend to some other end than to conferve them by their like: For they are also to be considered and taken with an intention to show and advise the Artist, whether he may use the same Medicaments and the same

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means to Cure the same disease in a diversity and difference of the aforesaid things: And foupon this account they are also called curative Indications. For they make the Artist to understand and distinguish the diversity of Cure of the same kind of disease, in divers respects, and according to the difference of complexions of Bodies, parts of the Body; of the age and custome, &c.as beforesaid, whereof they are Indications, and Signs; and give us to understand, that besides that there happens fometimes that the disease it self, is name not only not curable in all complexions, in all the Sexes, in all Parts, in all Ages, in all Seafons, that in all Airs, in all Customs and manner of re he Living; but-also where it is curable; yet it fear is not fo by the same means. For, in truth ome. there are some parts, and some persons, some tural Airs, and fome Seafons, or dispositions of y,the times, where the fame Malady is curable; ot to and where it is not. As for example, an Ulhem. | cer in the Lungs, or in the Nervous part of these the Diaphragma, or within the Bladder, can Non- not be cur'd, by reason of the part they poslefs. The same may be said of the Region, or Country where fome difeases are more difficult to be cur'd than in others. And 6, many diseases are curable in young, which are not in old perfons. For the feafon

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may fame neans fon it is clear, some diseases are sooner cur'd in one than in another, and fo the ingenious Artist may judge of other Indications.

Now concerning those diseases that are curable, but not always by the same means; to clear this point, let us suppose the Artist had a Patient of a cold, dry and melancholic Complexion, of a thin, little Body, accustomed to study hard, and dwelling in some solitary place, and in a cold and unhealthful Region; in a darkish and unpleasant house, useing a gross dyct: and this person hath a tertian Fever, in Winter, or an Ulcer with a Flegmon in his Eyes, or some other Universal, or particular disease. Then suppose he hathanother patient, of another Age, of another Natural complexion, &c. having the fame disease, either in the whole body, or some particular part, but in another feason; the same disease is not curable by the same means, used to the one as to the other. For there is a grand difference in all Indications, as well from things Natural, as Non-natural.

Or, to pass, by so many differences together, let us but take one in each Example, and put the case all other things are a like, and agreeable; put the case I say the Artist had a man and a woman who were troubled with the fame uni-

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versal disease, as a Fever, for Example; or some particular disease; these diseases must not be cur'd in one as in the other; because they are of a feveral temper, by reason of their Sex. So likewise in a soft and delicate body, &c. the disease is not to be cured by the same remedies as in an hard, robust, rustic one. For so many differences of habits. fo many differences of Medicines: Likewife it is not possible that a Fever of the same kind, or an Ulcer, or another difease in a Phlegmatic body should be cured after the fame manner, as in a Choleric one; or in a dry, as in a moist body. For different complexions require different remedies.

Then for the difference of parts, take two men of the same complexion that are alike in all things elfe, that have the same kind of disease in several parts; now this is not to be cured in the one as in the other; no though it were in the same one man. For each part is to have it's proper remedy; and as many things as are to be confidered, as well in a fimilar, as an organic part; fo many are the Indications thereof, and by confequence fo many medicines convenient for them. For an Ulcer in the Eye, is not to be cur'd as an Ulcer in the Ears; nor a Flegmon in the Throat, as in another part: The Artist must

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not repercussit in the beginning, when it is nigh a noble part, as when it is far from one. A folution of continuity is not to be cured in a nervons part as in a carnous one; in a dry part, as in a moift one.

As to the Indication of the feafon; suppose the Artist hath under his hands the same disease in the same parts, or in the same Complexions of patients; but in feveral feafons: he cannot cure this disease after the same manner and with the same Medicaments: For each feafon or disposition of times requires its Medicine to be different from another. fame may be faid of the Air, whether Natutural or other. If any one finds himself sick in another Air, than that of his own Country, or of his ordinary habitation; he cannot be cured by the same means, not taking Indication from the difference of Airs.

The Indication of the State, Custome, and Fashion of Living, brings much difference to the use of Remedies; for the same disease is not to be handled after the same manner in one of the long Robe; as in one of the short, as they say, in a Citizen as in a Country man; or in a Carter, or Mariner, or Soldier: In one that is accustomed to the cold, as in one us'd to the heat; in one that

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is always us'd to drink Wine, or strong Beer, or Ale; as in one that never drank any; although they were of the same Age, and had the same disease, in the same time;

and differing nothing in other things.

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Then for those that differ in Age, and have the same disease; a young man of the fame City (put the Case, he were alike in all things, as well Natural as Non-natural, to a man of another Age, although all thefe refemblances cannot be) nevertheless by manner of example, hath the like disease, even in the same part of the body; it is not posfible that it should be cur'd by the same Medicines in the one as in the other; because there is need of as many Medicaments as Indications; and each Age hath it's Indication. And yet sometimes may happen a thing that will feem strange, and which is very curious; which by reason of the difference of the Age, the contrary complexions, as well of the body, as part affected, hath a Relation, as it were, to a like complexion, and may correspond to the same means of curing: As suppose an old man, hot and moist of bodie, who hath an hollow Ulcer, in a part of the same temper : and suppose a young one to the quite contrary, whose body is cold and dry, having in a part of the same temper, such a disease as the other; you'll ask me, must I apply the same Medicament to them both? I answer, perhaps yes; provided that the heat and moisture of the one, in regard of his old Age, shall not in any thing be different, from the qualities of the other, by reason of it's youngness: It being probable, that the qualities of the young man are not so cold and dry, that they be not so hot and humid, as those of the old mans who is of an hot and humid Complexion.

CHAP. V.

Of Indications from Contra-Natural things.

These are properly those which are called curative; and are of several sorts. Some are produced from the Essence of a disease, whether it be homogeneous and simple; or heterogeneous and compound; others are deduc'd from the cause a disease; as well antecedent, as conjunct. Others proceed from the Symtoms or Accidents which accompany the said disease: all which Indications signific to us that the Intention of the Cure

Cure ought to be accomplished by the using of things contrary to the disease, it's causes

and fymtoms.

Now I divide these Indications into some that are taken from things within, or from the Effence of the disease; and those without it. Those from within are of two forts; the first is proper to the name and definition of the difease; which fort is general and common to the whole Cure of the disease: The second, to the differences and accidents of the disease, as well separable as inseparable; and this is proper and particular to the faid Cure. Those of the first kind are Universaland limit not, nor shew us neither the means, nor the possibility (if there be any) to come to the intention of the cure: As for example, when I suppose that the disease is an Ulcer, without adding the differences thereof, the true and proper intention fignify'd by the faid univerfal, and first Indication of the faid Ulcer, is that the Artist must dry, and unite it by a deficcative and agglutinative medicine; but the faid Indication neither limits: the means, nor the possibility, how, by the faid Medicament, we should come to this Intention. Now those of the Second fort, which I faid were particular, limit and specify; not only the find disease; but the Medicament C. 4.

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dicament proper to Cure it: As the Indications taken from the longness and largeness and profundity of the Ulcer: It's figure, situation, streight, or oblique, high, or low; it's equality, or inequality, &c. and certain other proper differences of the said Ulcer: And so do likewise the Indications which are taken from the Antecedent or Conjunct causes of a disease, or from the Symtoms thereof; and amongst others those which Hippocrates, as Galen says, is the first Inventor the which are taken from the greatness and vehemence of the disease.

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The Indications which I call from without are likewise of several forts. For I divide them first, as the Rhetoricians divide the Reasons of praise, or dispraise; into two kinds: The one of which they take from the Topics of the persons; the other from the Topics of the things which are without the persons. The Indications taken from the Topics, and persons, are those which we discoursed of before of things Natural; and almost Natural; as the Complexion of the body, it's strength and natural Habit; Sex, Age, Education and Custome: as also of the temperature of the part, it's composition, that is to fay, of it's substance, form, figure, magnitude, ati-

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nitude; it's situation, and relation; of it's feeling, whether acute and delicate, or dull and gross: Of it's action and profit, &c. the Indications brought from the Topics without the person, are the other circumstances which are called Indications from things neutral, which are neither Natural, nor Contranatural; that is, which are neither of the substance of the person, nor of the disea'e, as the time, season of the year, Air of the Country, and abode; and the Air which encompasses the patient; with the temperature of each of all these.

Now all these Indications abovesaid taken from without, as we faid of those of the Second fort of those from within, which are taken from the proper differences of the difease, are then called particular, when they are joyn'd to the faid difeafe, as circumstances thereof: Which as foon as they specify, limit and determine the same, and render it particular, do also determine, particularize and modify the medicament; which otherwife was indetermined and common to the faid disease. Wherefore as the Grecians call 2 Thesis an Universal proposition, undetermined, and not restrained to any circumstance. And the same proposition; an Hypothesis, when some circumstance is supposed; whereby it is limited, C 5

limit ed, as a certain person, time, place, or other thing: So we may suppose the disease, as a Thefis, which is not limited, or determinated to any Circumstance; but is considered generally and univerfally; and that Indication taken from it, we may call Thetic, that is, absolute and positive; that is, without any regard of any special thing, the which, for this reason, thews us neither the possibility, or impossibility to remedy the said disease; and determines not the proper remedy for it. And I call the faid disease, as it were Hypothesis, when there is supposition of any of the Circumstances aforesaid, by which it is limited and particulariz'd: And the Indications proper for the Cure thereof I call Hypotherics, and suppositives; and the which being taken from the faid Circumstances and Differences, specify, determine, and modify that Medicine, which is convenient for the difease, and declare the possibility or imposfibility of curing it. Wherefore, to be short, I distinguish also the names of all the Indications aforesaid. Those which are taken from within; from the pure effence of the difeafe, and not from the differences, causes or symtoms and accidents thereof; we may truely call them the primary, but not the principal Indications of the cure of the disease: Common.

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mon Indications, general Indications, or univerfall Indications of the cure: Indefinite Indications, and without regard to any difference, as Circumstance; Thetical i. e. positive Indications: Indications which univerfally and generally shew the Cure of the difease, not limiting or specifying the remedy; that is, not declaring the manner if it be positive.

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Now those Indications which are taken from within, but from the Causes or Symtoms of the disease; and all those taken from without, are called fecond Indications, and yet the principal in the Cure of the difease; proper Indications, particular Indications, special Indications, hypothetical Indications, that is, Indications in the Cure of a disease, wherein we suppose some Circumstances and certain things to be joyned thereto. Which Indications, demonstrate in particular, limit, specify, modify and appropriate the remedy and medicine, which otherwise was undermin'd and general for that disease, and not agreeable to any difference thereof, nor to any person. And to speak more clearly and fummarily, they are Indications of possibility, or imposibility; that is, of the manner how it is possible, or not, to accomplish the intention of the first Indication.

C. 6.

And:

And now having cleared, as I hope, and made easy, this doctrine of Indications, which you may perceive is of fo grand concern in the Curing of diseases, methodically and not empyrically; yet fome may think it strange that we should trouble the Artist with such a number of them in the Cure of a disease; fince feveral, that have the repute of able Phifitians, make use but of one, and that is, that which is taken from the effence of the disease; from which Indication, the Scope and Intention is to cure the faid difeafe, by it's contrary; as Reason guides us; and it is the common opinion of the two grand Luminaries of Philic Hippocrates and Galen; fo that it must follow that this Indication alone deduced from the effence of the disease, will be fufficient to find out the means to Cure the faid disease, without any other.

But I answer, the Consequence will not hold good; for the agreeing to that which fo many great persons say, and not denying, but that it is rational that the difease should be cured by it's contrary; must not therefore cause you to infer, that the Indication taken from the effence of the faid difease is sufficient: Which being admitted for necessary, will not take away the necessity of others. We hold this Indication for the Primacy, as

I faid

I faid before, but not the principal. For, as Galen fays, it indicates not the means, whether it be possible to cure the said disease. or no, as the others do; the which for this reason, are the principal and necessary. And as Philosophers, to conclude their Questions, use several demonstrations and arguments neceffarily probable; and your Orators use all forts of proves, whereby to come to the Confequence of their purpose, and to close up their orations: fo Philitians, to attain to the Intention of the Cure of a disease, make use of all forts of Indications; and must not be regulated by the example of Vulgar Philitians who vaunt themselves, to be Methodists; but are in a great Errour, and endanger their Patients, by following and observing, this one Indication alone, taken from the Essence of the disease; being mistaken for want of understanding that common Maxim, aright (viz.) that the contrary is cur'd by the contrary, &c. For this Maxim comprehends, that there is a necessity of following and observing other Indications also, which shew us feveral means to attain to the Cure; as may be proved from that great Philitian Galen, concerning which hear what he fays.

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The first Indication (fays he, in the begining of the third and fourth of his Method) is not a weighty part of the curative part of Phisic, but the beginning only, and foundation thereof: Neither indeed, is it a thing proper to Phisic, being common to simple People, even to Children. For in this Indication is neither any Art, or Cuming; nor any other Ingenious matter, that is not wholly common and manifest to every one. For the simple Mechanic and ignorant people, if they feel or perceive any member out of it's Natural place will tell you that it must be reduc'd to it's Na. tural place; and they can tell you also that an Ulcer must be closed up : That a Flux must be stope; but they know not the reasons and means by which these things are to be accomplished and put in execution. And it is this which ought to be ordered by the Physitian the true Curer of the disease; who alone is able to invent the things, by which shall be accomplished that which is infinuated and given. us to understand by the first Indication:

These are the Golden Words of the second Prince of Phisitians: And all these realsons and means, which the Phisitian must invent to come to this intent; or to know if the disease be possible to be cured or no, dowe find from the particular Indications aforesaid, as well of things Natural and Nonnatural, as Contra-natural; which restrein and

and limit the first Indications being joined with it.

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And now by this discourse of Indications I hope the Artist will easily perceive that the Method of Curing is guided by them; and that the Cure of diseases is the work of reason chiefly, and not experience: For, as is said before, although your Empyrics, and little fort of people, say well, that all solution of Unity requires Union; and that to every disease, it's contrary is requisite; yet it is the work of an able Phistian to know, whether the said Union to every solution of continuity be possible or no; and if it may be accomplished in all the parts of the body; or if in some it cannot.

For every Natural thing being alienated from it's own Nature and Degree of perfection, requires, by a certain Natural Instinct, as it were implanted in it, a reparation, restauration or restitution, and to be replaced in Statu quo prins; that it may thereby conserve it self; until it's Period allotted it by Nature, which is insupportable: Though Natural Beings may come to their end by violent causes before the time of the said Period. And when Nature hath accomplished this reparation equal to that which it lost; she hath then arriv'd to her first intention.

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But if this Natural Being, be not so happy as to replace it felf in it's first degree of perfection; but shall search out other means that shall come nigh to this restitution, and fhe shall attein it, then we say she hath restitution made her, according to the second Intention; being disappointed of the first. As for example, when there happens a deperdition of the substance of a bone; Nature without doubt, endeavours all she can to have a bony substance restor'd her in lieu of that she both lost; but being frustrated in her design, or not being able to attein it; what does she do, but goes another way to work, and creates a certain fubstance in the place thereof called a Callus; which she makes of part of the nourishment due to the said bone; and this she does, not by her formative, but nutritive faculty; being Deputy to the formative Virtue, being absent; and in case of necessity, executing an Office, not proper or effential to her, for her duty is to repare that which is confumed by the Act of the Natural heat.

For, as the same Galen says, loco citato, The common and simple People are ignorant, that the nervous part of the Diaphragma, being wounded, cannot be consolidated: That the prepuce cannot be united; if cut a sunder; if putrefaction, or rottenness

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rottenness in the bone, be curable, as well as crosion in the sleshy: If a Fracture may be united as a wound: Or whether the said fracture may be united by a Callons Substance. Moreover, they understand not, if in fractures of the Scul, we must attend the generation of a Callus; or if it may be cured, after another manner: And to say all in a Word, your common people understand nothing besides the first Indication; and all your Empyrics know not much more, although they make great boast of their experience; which though is be one of the two Instruments of all Invention, yet it cannot like Reason (which is the other Instrument of Invention) find out, nor shew us the substance of the part where the disease is, nor it's Action, or it's use, or utility; nor it's situation, or connexion, nor other things from whence we take our particular Iedications; by means whereof every rational and Methodical Phisitian is able to foresee, not only diseases incurable, but also those that may be cur'd, and the remedies wherewith they are to cured.

By this learned, profound and curious difcourse of Galen, the Artist may plainly see that the means of the Empyrics and Quackfalvers braging and boasting of their grand cures, and their vaunting themselves to be as knowing and expert as the Methodics, is removed out of doors; because the Indications and

Reason

Reason are the only means which separate them, and make a difference between them. As for their experience they may brag of, Alas, it is not made from one or two, but confirmed by a long tract of time, in many patients of both Sexes. As for Example, it hath been experienced that a Cancer was cured in a certain Woman, with leaves of Netles, bruised with common salt; but therefore it will not follow this is approved of by experience; for apply d to several others it wrought no effect.

And hitherto have we explicated the means how the Artist should find out his Indications; by which he is to be guided; having declar'd first what an Indication is; next how many forts the Artist is to make use of, in his condust of curing diseases; Which is the first and general: Which are the second and special ones; and which are the principall: So that it is time now to let him know how he may use, and help himself, and patient by the said Indications.

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CHAP. VI.

Of the use to be made of the aforesaid Indications.

He means how the Artist may know how to make use of the aforesaid Indications are two-fold. The first is treated of in a general way, by certain Rules of each Indication, considered by it self, without conference, and in a special manner by example in each kind of disease, as by Examples in Ulcers, we shall declare to you presently; when we shall speak of the Curative Indications of Ulcers. The fecund treats of the Conference and Excellence of the faid Indications concurring in one difease. We shall wave, for the present, the first means of using the Indications, which treats of the Rules of Indications confidered fimply and by themselves; and come to purpose to enquire into the Excellency of those that coming to rencontre one another are of different and contrary Natures, either in a fimple and fole difease; or in a compounded or complicated one.

And

And here it feems that the great Galen gives us a light into this enquiry, 1. 3. c. 9 Method. Medend. in which place he fays, that it often happens, that contrary Indications. will meet at the same time : And also all that is infinuated by them is put in execution, at the same time: Hereby giving us to understand, the contrary Indications taken from things Natural, Non-natural and the disease. Then he fays, a little after, that it happens fometimes, that that which is infinuated by divers Indications, cannot be accomplished at one time; fignifying thereby, as may be fupposed, the Indications taken from diseases complicated together; which require to be cured in order, one after another, except fome one must remain uncured; and fo, as to this one enquiry, I shall answer, as if they were two enquiries: The one concerning the Conference of Indications contrary to things Contra-natural; the other as concerning the Excellency of Indications, of things as well Natural and Non-natural, as Contra-natural.

As to the first, I thus distinguish; either there is another complicated, urgent and perilous disease, or not? If there be a complicated, urgent and dangerous disease, it Indicates to us, that it is our business to begin

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the cure with it, notwithstanding that by this means there remains one incurable; or that we are constrain'd to make another which will remain without being cured. For the disease that is urgent and perilous, is sometime of fuch fort, that to cure it we are forced to leave another disease incurable: And sometimes there is a necessity that the Artist himfelf procure, the faid difease, although himself cannot cure it. As for example, if the head of a Muscle be prick'd, and there follows a Convulsion; which he cannot possible come at by Medicines, that by cutting the Muscle transversly he cures the Convulsion; but then, at the same time, he deprives the part, where the Muscle is, of voluntary motion. Also, if in some great joint, there be a luxation or diflocation with an Ulcer; if you try to reduce the faid luxation or diflocation, there will immediately follow Spafmes and Convulsions, which are very dangerous dif-Wherefore, to prevent the faid Convultions, we must imploy our utmost skill to cure the Ulcer, and leave the luxation without being cured. But when in Complicated diseases, we are not presid, nor drawn aside from the principal Cure; that is to fay from the dileale proposed, we must observe this order, viz. following the Indication of the thing

thing which hinders most the principal Cure of the said disease; and the action of Nature, we must Cure that thing first: then the other (if there be several) by the same order and reason, so that none shall remain uncur'd.

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As to the other enquiry, which was made concerning the conferring, or comparing of feveral Indications, which entercombat and are opposite among themselves; as well of things Natural, as Contra-natural and Neuter; how these I say may be follow'd and dispatch'd at the same time; I shall illustrate it by examples: As suppose an ancient man that hath been accustomed to strong drinks, and to eat often in a day, when he was in health; is now feized upon by a Fever; and that, in regard of the Fever, strong drinks, and often eating is contrary to him; but in confideration of his Age and Custome, they are necessary for him: behold here are three Indications disagreeing and contrary (viz.) two of the things almost Natural, wiz. the Age and Custome; and one of the things Contranatural, viz. the Fever; whereof the two first are Conservative, and the last Curative: Among which there are fuch contrariety, as that the Fever refuses the meat and drink; old Age rejects the often eating and not the drink;

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drink; the custome requires eating and drinking. And now, because each carries it's weight with it, the Artist ought therefore to endeavour to make fuch an accommodation between them; that to gratifie the one, he must not forget the others: And yet they ought to be put in Execution at the same time. Now the Artist is to consider that the confervative Indication is of greater importance than the Curative: So that he must therefore leave fomething unfinished in the Cure of the Fever; giving his Patient meats and drinks often; although they be contrary to the Cure; in confideration of Age, to which strong drinks are proper; and to conserve Nature in her custome; curing the Fever by other means, and conferving the faid things at the fame time, if it be possible: and if it shall happen to fall in Winter, the Indication of the time will augment the permission to eat much, and drink Wines and strong Drinks, (viz.) Beer or Ale, &c.

Take likewise another example, answerable to another part of your enquiry; which is concerning the rencontre of opposite Indications, deduced from the same Topic of Natural things. Suppose then that in the Cure of an Ulcer, the Artist meets with a Body of an hot and humid temperature; as in a

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sanguine, young man; and the part ulcerated be of a cold and dry Temperature; as about the Joints; or the substance about the ears, or the nofe, or some other part where there is no flesh, or but little; and so he sees the Indications of the faid Temperatures are contrary, in comparing them, with that of the disease: Now to judge according to the enquiry, if the Artist can accommodate and agree them all at the same time, and which require the greatest care in the Cure, the Artist must distinguish how many degrees the faid contrary Temperature are distant from a mediocrity. For if they are equally distant; he must apply such a Medicament as he is us'd to do in a body of a middle Temperature, observing only the Indication of the disease. But if they be of an unequal distance, that which exceeds the other, draws to it felf the fortifying, or mitigating the Medicament proper to the disease.

See here another example, not wholly unlike the last, but proper, farther to explain the solution of the enquiry: And it is of the conferring, or comparing of several Indications, of things Natural, and almost Natural, and of some Contra-natural agreeing together; although opposite, for the most part to the Indications of the principal disease.

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Suppose then the Artist hath under his Cure a grand and profound Ulcer, very painfull, in a tender young maid, delicately brought up, in a part of her body of the same Temperature, and very fensible; the said Ulcer, as well in regard of it felf, as for it's magnitude and profundity, requires a more drying and sharp Medicament: but on the other hand, the pain, the moist Temperature, as well of the body, as the part, the feminine Sex, the Age, the Soft Habit of the body, the sensibleness of the part, the Custome and Condition of the person, which was never accultomed to labor, and who never endured any hardship; all these require less drying and more mild Medicines. In this Example the Artist may see many Indications, as well of things Natural as Non-natural which draw the Cure, each to it felf, in oppolition the one to the other.

One example more a little differing from the last, and so I shall conclude; suppose an Ulcer in a part of an hot temper, and in a Summer, hot beyond measure; now the Ulcer for it's part it requires a desiccative Medicament, and the Temperature of the part ulcerated, that requires an hot medicine; the Air about the Patient is too hot and too dry and because to the Air a cold medicine and less

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drying is proper; and all this falls out at the same time: If the Artist shall ask to which of the said Indications he ought to be most intent? Which he should prefer? How he shall satisfy them all together? I shall aniwer in a few words; those of greatest importance, and of grandest consequence draw to them the principal Cure; and regulate the medicine, in moderating the other.

CHAP. VII.

Of things Natural, Non-natural and Contra-natural

WHereas, in the former discourse there is ofcen mention made of Natural, Non-natural, and Contra-natural things; if the young Artilt be not acquainted with these terms before, from other Authors, he may then take this following short account thereof from me.

First then things Natural are so called because they compleatly constitute our Natures; and they are seven in Number; Elements, Temperaments, Spirits, Humors, the parts of the

Body, Faculties, Functions, or Adjons.

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The Elements, known to all, are Fire, Water, Air and Earth. The Temperaments arise from the mixtion of the Elements; and so a body is said to be simply hot, cold, moist or dry; or compounded of hot and dry; hot and humid: cold and dry; cold and humid. Then for the Humors, they are four; Bloud hot and humid; Phlegm cold and humid: Choler, hot and dry; Melancholly cold and dry.

Next the parts of the Body, and they are generated from the commixion of humors; and they are either Principal, as the heart, brain and liver, to which some add the testicles; or administring to the principal, as the Arteries to the heart; the Veins to the liver, the Nerves, &c. to the brain, the Spermatic vessels to the Testicles. Then the parts are some of them neither governing nor gorverned by others; but are governed by their own faculties, as Bones, Cartilages, Membranes, Flesh; &c. but what is here faid must be taken in a found sense: For Flesh receives from the Liver the Influence of the Natural faculty by help of the Veins; and of the Vital faculty by the Arteries; &c. then some parts exercise their own faculties, and those proceeding from others, as the Abdomen, Reins, and Matrix. Again a part may be divided into Similar, as a Bone, Car-

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tilage, Flesh, &c. which are so call'd because their parts have the like Nature with the whole: As an hundredth part of a Bone, is called a Bone; as well as the whole: And these are either sanguine, as Flesh, a Muscle, &c. or Spermatic as a Bone, &c. Secondly, Dissimilar, or Organic, because they are the Organs or Instruments of Operations; as the hand of Comprehension, and the Stomach of chilification; and so of the Heart, Liver, Eye, &c. they are called diffimilar because they are divided, as to the Sense, into other parts, which lose the Name of the whole; as a membrane, part of the Eye, is not call'd the Eye : Nor a bone, part of the Finger, is not called a Finger.

Then the Spirits, they are the most aery sucid, subtile part of our Body; and the chief Instruments of the faculties; they are three in number, Vital, Animal and Natural; the first is generated and resides in the heart and arteries; the second, in the ventricles of the brains, &c. and are made of the vital; Galen doubted of the third, yet Phistians, after him, allowed of them, and added a fourth fort, viz. the Generative, residing in the Testicles; which they

fay is compounded of the three other.

Next the Faculties are to be considered; a faculty is the cause from whence proceeds the Function, le

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Action; and Action is an active motion proceeding from the Faculty, and the Work is the effect of Action, as Flesh, Blood, &c. Action also is a work, as Sanguification, &c. but not the contrary; as work is not Action; as flesh is the work of Nature, not the Action, The Faculties and Functions are three fold, viz. Natural, Vital, and Animal. The first Facultie is inherent in Plants and Brutes; it affords nourishment from the Liver it's instrument, by the Veins; 'tis also called Facultas Concupiscibilis and Austrix; 'tis diffus'd through the whole body, and yet is faid to relide in the Liver, by reason of the Blood, the common aliment of the parts: but properly it's Subject is every part of the Body that's nourished and augmented; yet it needs the help of four Functions, viz. Attraction, Retention, Coction of aliment, and Expulsion of their excrements: The Instrument of the Vital Faculty is the Heart; wherein it relides; it's the midle Faculty between the Natural and the Animal. The Organ of the Animal Faculty is the Brain, wherein it relides. To these some add the generative Faculty, which refides in the Testicles; since they say they are principal Parts; and ferve wholly for the confervation of individuals, and propagation of each Species. The D 3:

The Vital Function or Action belongs to the Heart, from whence proceeds the generation, and distribution of the Vital Spirits, to which the pulse is serviceable. The Natural Function confifts in Nutrition and Augmentation, as abovefaid. Animal Action is performed by the external fenses, or motion, or the principal Faculty; the fenses are hve Seeing, Hearing, &c. animal motion confifts in the muscles whereby the parts of the body are mov'd by contraction and extention, and geometrically after divers manners; The Principal Function conteins the imagination, or phantaly; ratiocination, or difcourse, and the memory: Now all these things are Philosophical Contemplations.

And this is the description, in short, of the Oeconomy of our bodies, according to the Ancients. Now some moderns say, the blood is elaborated in the Heart, and that the Liver is but in lieu of a streiner to absorb the impurities, and send them to the Emunctories; and that it moves and winnows the Chile and Blood by the motion of the Diaphragma; and that it moreover cherishes the stomach: And so Bartholinus after Pequetus, shuts the Liver out of doors; as to it's office of sanguisication; yet Lindamus professes that the Liver helps sanguisication; but after another

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ther manner than the Enthusiastical Van Helmont, who thinks sanguification is made in the Mesenterieveins; as it were in the shop of blood from inspiration of the Liver. Eut whether any one receives the Ancient or Modern opinion, or whether the Heart or Liver be the organ of fanguification; the Ancient practife of Phylic will not be thereby changed; fays the learned I.D. Horstins, Manuduct. ad Medicin. p. 108. but the same conservative and curative Indications will stand firm for ever; as the famous Rolfincius hath strenuously intimated: And his most excellent assistant, Dr. Moebius, in Institut. hath largely and elegantly handled this matter: therefore fays the Learned Horstius, ibidem, we owe thanks to God, that the Methodus Medendi daily grows splendid, more and more, and remains the fame; notwithstanding the disagreeing of some new opinions among Natural Philosophers and Anatomists; do not I pray, the Aristotelains and Democritists sharply contend amongst themselves concerning the Elements and Atoms? and yet they both cure after the fame manner; as may plainly appear from what the Learned Leichnerus hath written concerning Atoms.

Next are the Non-natural things; and they are such as enter not into the composition of

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our bodies; but are without us; and yet have power, inevitably to conferve us in health; or to cause diseases in our bodies. They are six in number, viz. first the Air, 2 dly our Eating and Drinking, 3 dly Motion and Rest, 4thly Sleeping and Waking, 5 lyth Retention and Expulsion; that is, if those things are reteined which should be expell'd 'tis hurtful to the body: and è contra, as the evacuation of blood, urine, monthly terms, &c.be suppress'd they oppress the natural heat, and putrefy: So if those things be expell'd which ought to be retein'd, or be evacuated in too great a quantity, the heat is exhausted, the Functions languish, and cold diseases ensite. Lastly, the Passions of the Mind as Joy, Sadness, &c. can help or hurt us.

Lastly, the Things Contra-natural are to be considered. They are three; first, A disease, fecondly, It's cause, thirdly, It's symptoms. Now disease a is a Constitution against Nature, which immediately and manifestly burts the Operations: 'Tis threefold; first, Similar; secondly, Organic; thirdly, Common to both parts i. e. Solution of Unity. The fimilar is fimple, as hot, cold, dry, or moist; or compound, as hot and humid, hot and dry; cold and humid, cold and dry. Also 'tis either universal, as a Fever, or particular, as coldness of the Stomach, Gc. or it is either material with fuperfluous perfluous humor; or immaterial without it,

as Inflammation; &c.

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AnOrganic disease is either, first in formormale Composition and that either in Figure, as when that which ought to be streight is oblique; or in cavity when the measus are stopt: in asperity and leinty; as when that which, by Nature ought to be smooth is rough; asthe Trachea which is fometimes exasperated by fluxion of humors. Secondly, In number, and that either, first abounding from things Natural; whereof the cause is multitude of good matter, as when there are fix fingers; or Contra-natural, as the Stone in the Bladder, or worms in the Intestines; or 2dly wanting, by the total ablation of a part, or not total. Thirdly, In Magnitude; and that is either in the first formation, or after the birth: The first is when a part, or the whole body is lef- . fer, or greater than convenient : The fecond is, by excessive growth of a part, or the whole body. Fourthly, In Site, or position; and that is when the parts possess not their Natural places, as in Ruptures, &c.

A common disease is the last; for all parts require Union, which is not the cause of action; but only a performance of the use. Solution of Unity is either in a similar part, as in a stactured bone, called Algebra, by the Arabi-

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ans: in the flesh called a wound, or Ulcer; in the Nerves calld Convulsion, or Spasma; in the ligaments Apospasma: in an Organic part it is

called Avulsio.

Secondly, A Cause is any thing that produces. a disease: and it is either, first Procatarticor Primitive, which causes the beginning, and then absents it self; as anger, &c. Secondly, Antecedent, which is produced by the primitive; as abundance of blood from copios valiment. Thirdly, Conjunct; by whose presence the difease remains; and when absent it ceases. Courthly, Causa per se, which is ordein'd for, ome effect, and is expressed by a name denoting the Reason by which it causes it's effect; as heat is the cause of being hot. Fifthly, Causa per accidens; is that which is not ordein'd for the effect it produces; or which is not expressed by a name shewing, the reafon whereby it produces it's effect; as cold heats by accident; and heat is the cause of fermenting a thing also by accident, which proceeds from the intervening of another thing: For cold heats by closeing the pores; and fo hindring the iffuing of the heat; and the heat ferments or elevates because it rarifies. Also when an effect proceeds from a cause that was not ordein'd for it; it is the cause thereof by accident: As when the making a ditch

to plant a Tree in, happens to be the cause of finding a treasure: although sometimes, according to Galen, a cause by accident is taken for a mediate cause, and Causa per se is taken for an immediate cause. Sixthly, Causa immediata, is that between which and it's effect there intervenes no other cause. Seventhly, Causa mediata when the contrary happens.

Lastly, A Symptome, or Accident, is a Contranatural thing which follows a disease, as a shaddow doth the body: As Redness, Pulsation, Dolor and Tension, are Symptoms of a Phleg-

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CONCERNING THE

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Of External Medicaments,

With the right manner of using and applying of them.

N D here I had made an end but that I thought it might not be from the purpose to write a few words in general concerning the Temper, &c. of External Medicaments, the Artist shall make use of in his Practise; Know then that when Physitians call this Medicine hot, and that cold, &c. know I say, that it is to be judged so only by it's Operation; when it is applyed to a temperate body; without enquiring what it is in it's own Nature;

Nature; and what Element domineers in it. Know also that in the temperature of Medicines, there are affigned them four degrees, above the exact temper, which hath no degree; as being of fuch an exact temper. The first degree then of hot medicines heat, cold, cool, dry, dry, moist ones humect; but not manifestly, or sensibly: insomuch as they have need of fome rational demonstration: the fecond degree, heat, cool, moisten, dry, manifestly, and fensibly, so that there is no need of demonstration. The third degree acts vehemently, but not extremely; Lastly, Medicines hot in the fourth degree burn and cause an eschar, as quick-lime: The cold mortify, as Henbane; the dry always burn, as actual cauteries: As to the humid Galen is filent. And now because all Medicaments ranked in the same degree, are not wholly alike, therefore there is, with great reason, affigned a certain latitude to each degree, which is divided into three; that is, first, fecond and third degree, of heat, for example, and fo of the rest. And though the Ancients, before the time of Galen, did not fo graduat their medicaments, as appears from Dioscorides; yet the Invention thereof is of great use and profit in practise. For it is not fufficient to apply to an hot disease any

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wn re.; cold Medicine, without any other limitation, or consideration: But according to the excess of the Intemperature, and offence in heat, so must the Medicament be proportioned in the like degree of contrariety; according to Artificial Conjecture and the nighest to certainty; and not always by certain and infallible knowledge, whereof divers Medicinal things are not capable: and

now to particularize.

Here then we are to begin with Adstringents under which are to be comprehended all Medicaments that are of a condensing Faculty, as Repellers, Epulotics, &c. Now these perform their Functions, either without any manifest quality; or with some acrimony, (as as ustum, &c.) which extenuate, digeft, and produce an Eschar, and therefore are proper for fluxions of blood in wounds. Some bitter Medicines are of an adstringring, purging, and absterging Faculty, and are proper in inward and outward difeases. Salt things are proper for loose parts, and those that are flaccid from plenty of humors; because they contract and constringe. Lax parts sometimes require only adstringents. Sometimes those Medicines are necessary which thicken the humors, if they be thin, and fluid. In fluxions and difeases, of the head, adstringents

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gents ought to have also a desiccative quality, to strengthen the part, if the fluxion be cold; but if it be hot, mere binding and thickning fuffice, Sharp adstringents are to be shun'd in the eyes; and ungratefull and malignant in difeases of the mouth; as also minerals in the diseases of the stomach; as also bitter sharp and acid in Ulcers of the Intestines. Adstringents are not convenient in all fluxions, nor always, nor in certain pants, but they are to be used only: First, When the matter is never evacuated; by the Law of Nature: As blood, &c. Secondly, When there are bad Symtoms, as pains, Iwoonings, &c. Thirdly, When evacuation is in an incommodius place. Fourthly, Aftriction is convenient in Ulcers, in the beginning to prohibit inflamation; and in the end to produce a cicatrice; but it is hurtfull in the progress and state of inflamations lest it cause a Gangrene.

Repellers are of a cold Nature, or of a thick, terrene matter; for many things repell only by their coldness, which adstringe not; as Henbane, Letice, Poppy, &c. Some hot things adstringe, which repell not; as alees, &c. Repellers are convenient in the beginning of fluxions; cold ones are proper if the part be affected with great heat and pains; but the others if the part be only weak and lax,

to strengthen it; they are proper rather for hot distempers, then cold; and that only in the beginning; for in the progress you must add Resolvers. Now they hurt also in these cases; first if the humor be in the Emunctories of the Principal parts, (viz.) in the Groins, under the Armpits, or behind the Ears; left they repell the humor to the part. Second-ly, If it be venemous; Thirdly, If it be thick, or fixt in a part so that it cannot return; Fourthly, If the Fluxion be critical. Fifthly, If it be in a foul, cachochymical body before universal evacuation; viz. bleeding and purging; and fixthly, when the part is weak; left repellers destroy it's heat, whence Scabs, Leprofy, &c. ought not to be repelled: They are proper in Phlegmons, Erysipela's Ignis, Sacer, and fuch hot Tumors; and are us'd either in form of an Epitheme, Fotus, or Cataplasm.

An Epitheme may be made ex aquis notasi, rosar. lactuc. burs. pastor. portulaci, &c. but the more effectual and powerfull is made of the decoction or juices of the green herbs of solanum, lactuc. polygon. semperviv. cicut. hyoscyam. &c. or the same herbs bruised, are proper, apply'd in form of a cataplasm; or the juices with Barley meal mixt to the consistance of a pultis without fire; to which may be added.

added, Bolus, Sangis dracon. &c. or thus, 4. Ung. populn. 3i. mucag. sem. Citon. Pysilij. an. 3iii. suc. portulac. 3s. ol. violar. rosar. an. 3i. Flor. nympheæ, rosar. an. 3i. Ceræ q. s. F. Ung. ent. or this. 4. ol. myrutin. cidon. a 3i. Bol. Armen. sang. dracon. pulv. gallar. a. 3i. Aceti cochlear. i. f. Liniment.

Fomentations are made of Oxycrate, or the aforesaid juices with vinegar, and adding some meal is made a Pultis. Or thus, 4. Rad. acetos. cichor. a. Ziii. Fol. violar. semperviv. portul. lactuca, lenticul. aquatic. acetos. cichor. and in a great inflamation, Solani, Hyosciami. a. M. i. flor. Nymphea, rosar. papav. rub. a.P. I.F. decoctio pro fotu; in inflamations. By these examples the young Artist, if he be ingenious, may frame others, ad infinitum, if he see cause. In the shops you have Ung. Adstringens, &c.

Emplastic medicines are nighest a kin to Repellers which, by their tenacious quality, close the Pores and Meatus, and thicken the humors: some of them are of a viscous substance; some merely of a terrene, without morsure; as Lythargyrus; their nature is the same with

Adstringents.

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Next we are to treat of Anodynes; now the property of these is to lemify or stupe-fy the body, or any part, the cause of the disease remaining. The Lenissers are of a temperate

temperate quality and agreeable to our Native heat; of a thin substance; and are proper for hot or cold distempers; but in an hot one they must be somewhat refrigerating. Narcotics are only to be used in cruelty of pain; they do much damage if the pain proceeds from thick humors; but are more convenient for hot humors. After the Artist hath used them to repair the damage done by them, he is to use hot Medicaments: wherefore they are bad in weak bodies and parts, and if humors be malignant; lest being imprison'd they bring danger. This is an Anodyne Fotus, 21. Rad. Alth. Lilior. a. 311 Fol. Maly. Parietar. Violar. Brance Urfnin, am. i. Flor. chamemeli; meliloti; sambuci; a. P. I. sem. lini, sanugrec. a. 3 s. F. Decoctio pro Fotu; frein it; and with the materials being bruis'd; and adding farina sem. lini, bordei, a. 3ils. Axungia porci, butyri recentis, a. 3 i.ol. Amydal. dulc. 3 ii. F.Cataplasma. Or 21 . Medull. panis cum lacte coct. 16. Vitel. Ovor. Num.iii.cl. Rofat. 31: croc. 31. F.Cas saplasma Or 4 . Mucilag.sem. Alth. Lini, Fænug. a. 3 13.ol.lilior. Amyadal.dule.wfepi .Axung. Anferis,a. 313 ceroa parum F Liniment These are for cold pains. For hot pains make aniniment of al. bum.ovi& ol.Violaceo, and in height of pain Hyosciam. and Opium. 2 . Fol. Hyofcyam. Solan. Malva. a.M. i.Flor.Papaveris, P.is. sem. Lini, Malv, a. 3iii coque

f. A. pro fotu. To the residence bruis'd, add Micæ panis albi, in Laste costo 3 ii. ol. Nymph.

Ung. Rosat. a. 3ii. F. Cataplasm.

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Emollients are next, Now they are not whatfoever things take away any hardness; but only that which was caus'd by dryness: And these must be of an hot and humid Nature, in the first and second degree. What distempers are bard through repletion, require evacuantia to cure them; but those hard from congelation require Calefacientia. Relaxating Medicaments are convenient for distended distempers; and mollifying for hard ones: But those which are both hard and distended they require both forts. They are of the same Nature with Anodynes, but you must add Origanum, Anethum, Calamenth, &c: as, 4. Rad. Lilior. Ebuli, Ireos, a. 311. Ficus, No. x. Fol. Malv. chamemel. Aneth. Pulegi, a. M.ii. F. decoctum pro Fotu. To the Residue bruis'd add, Farin. sem. Lini, fanug. a. 31. ol. Aneth. Irin. a. 3 13. F. cataplasm.

Attenuating Medicaments are of a nigh kin to Emollients, they heat, and incide, theres fore they are to be of a thin substance; some more, some less; those are called Diaphoretics: They are not to exceed the third degree of heat, lest they burn and harden. After somenting with the aforesaid emollient decosits

on presently anoint the part with some attenuating oil as before, or Ung. Agrippa, or Aregon; then apply the Pultis, aforesaid. Or 4. Ol. Costin. Irin. comp.a. 3ii. Pingued. Galline. antiq. Butyr. salf. a. 3i. Aq. Vita parum, F. Liniment. Aq. vita, or Brandy alone have often resolved cold Tumors.

Medicamenta Attrabentia are a nigh relation to your Attenuantia, and they are of an exceeding hot nature, as, Sinapis, Fimus Columbinus, &c. and those that being hot in the fourth degree, cause blisters and redness, are called Vesicatoria, Dropaces, Sinapismi; they powerfully diffolve and colliquate; they are proper in Dropfies, Sciaticais, great pains and often Vomittings; but they hurt being apply'd to parts wanting flesh, Children, and tender women; fuperficiary diseases, and cold ones without matter, Aetius: to which Calefacientia are fufficient in ulcerated and hot diseases. Yet they may be proper in the declining of the disease. Secondly, If the humor be so highly fix'd that it cannot otherwise be discussed; as in a falt distillation Galen applyed them to the head. Thirdly, If there be a venenate quality; as in a carbuncle, malignant Ulcer, biting, or venenat puncture. Fourthly, when venenate humors are to be averted from the Noble parts.

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A Dropax is of excellent use in Arrophia, and extenuation of a part; for it heats and humeets, and attracts blood; for aliment is not distributed because 'tis transmitted, but because it is attracted: Therefore cold and dry parts do not well attract; whence they require the help of heat. But here you are to understand that that extenuation of a part which proceeds from a defect of the Stomach or Liver, evilly concocting, cannot be removed by a Dropax. You are to remove your Plaster before it be cold, and it is often to be repeated, while the part looks red: It carries away the reliques of diseases: A simple Dropax is called Picatio, being only pitch melted in oil. But in hard bodies Galbanum and Sagapenum are to be used. If a more compound be required then the Artist may add, Piper, Pryrethrum, Sulphur Vivum, Sal. Stercus columbin, Bitumen. It ought not to exceed the third degree of heat, because it's end is only to rubify the part. The skin is first to be rub'd, or formented; when it hath produced a redness then remove your Plaster, lest what was attracted be resolved. It may be repeated every other day as occasion requires. If the part will be colored, neither by friction, not fomentity, nor by a Dropax; it is a desperate case.

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A Sinapism is a cataplasm made of Mustard feed, and Figs, steep'd in Brandy, and bruised together. The milder hath one part of Sinapis, and two of Figs; the meaner is of equal weight: the stronger hath two parts of Mustard seed and one of Figs. 'Tis to be used as a Dropax; first rubbing the part Gc. after it hath produc'd a redness anoint the part with ol. rofar. &c. 'tis proper in daily pains of the head, brest, joints; the Epilepsy, Hemicranie. Palfy, Distillations, Sciatica, Gout, short Breath and want of Appetite, says Aerius. Have regard to the parts to be applyed to, as in Dropax. For a more compound one. 4. Empl. de Mucilaginib or fuch like, 3ii. Sem. Sinapi, Siaphisagr. Stercor. Columbini, a. 313. or 3vi. pul. caryophil. 3ii. cum. ol. Irino F. Empl. For the head make. them in form of a T.

Vesicationes are of the same use with the former, and are made of Empl. Epispasticum.

The next we are to treat of are Medicamenta Maturantia, and they are convenient
where the humor is imprisoned, and by reason
of it's thickness, cannot be resolv'd or set at
liberty they must be of an hot and humid,
or emplastic quality; lest any matter should
be dissolved; they are proper in the State or
Encrease

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Encrease of a Tumor; but less proper in the encrease: they are made of the aforesaid Anodyns and Emollients; to which may be added Capas, Oxylapath. Tussilag. Oxalis roasted in the Cinders and bruised with Adeps, is excellent: Also Ficus cum busyro, oleo and farina tritici. In the shops you have Ung. Basilic. Agrippa, Empl. Paracels. de Mucilag. Diachilon cum Gummi, &c. If you cannot release your prisoner by these means; then you are to apply an actual, or potential Cauetry, and to use your incision knife. The Artist must open it, in the declining part according to the wrinkles of the skin; shun veins, arteries, &c. not evacuate all at once.

The Tumor being open'd, the Artist is then to cure the Ulcer, and to dry it up; for an Ulcer, quaterns an Ulcer, requires to be dryed up: But by what means and Medicaments this shall be effected, be labor, boc opus; well then the Artist must perform this by deterging, sarcotic of epoulotic Medicaments. Now the deterging Medicaments which perform this office, are to be most frequently of a bitter, hot Nature, in the first or second degree: or temperate; somewhat cold and dry, and of a middle substance; and these are to be either of a gentle and middle quality, which carry away the groffer

fer and thicker fort of Sordes; or elce of a more strong penetrating faculty, which have power to eat away a callus and corrupt Flesh; as in malignant Ulcers and Fiftula's. shops you have Ung. Egyptiac. Apostol. &c. If your Ulcer be hollow you must dissolve your unguents in Smith-forge, or Alum water; or white wine, or brandy, according as the Nature of the Ulcer is, and Syringe it: if Fiftulated, you may boil or infuse Tobacco in the aforesaid vehicles; some use infusion of Arsenic or Vitriol: and some Aq. Fortis alone.

The Ulcer being absterg'd requires Medicines that have power to beget flesh to replenish withall, call'd Sarcotics: Now the material cause of flesh being the blood; and the efficient heat; your Sarcotics, you must understand, do but only remove impediments which hinder regeneration of flesh: Therefore your Sarcotics must be of a deterging and exsiccating quality, without acrimony; or great heat, least they absume the blood. But because there are but very few Simples which can perform this alone; therefore compounds are made use of rather; and they must be divers according to the Nature of the body and part affected; they must be of a dryer quality for dry bodies and parts; but in humid ones, as children and women, they must be?

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moister and milder. Then the Artist likewise to note that if his Sarcotics be weaker than is requisite they cause the Ulcer to become fordid; and if they be too strong they will certainly exaspereate it: Which many not understanding have apply'd stronger and stronger; which prov'd to deterge too much, to the detriment of their Patient and practise, procuring thereby an eating Ulcer, or Nomodes.

And here in the use of Sarcotics the Artist is to consider four things. First, seeing that the generation of flesh, as I said before, proceeds from the alteration of the blood; he is therefore, in an especial manner to see that the body be in good temper; and if not to procure good blood by altering and evacuating remedies, viz. good dyet, phlebotomy, purgation, &c. fo in the use of his medicines, the Sanies and Sordes is to be dryed, but moderately; for if you go violently to work, you will absume the matter from whence should proceed your flesh; so Farina Hordei & Fabarum exficcate without heat; and Thus moderately. But Farina Hordei & Iridis are more valid: But your Aristoloch. and Panax are stronger than those. Then you must remember never to use adstringents before you have well deterg'd, lest they detein

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the excrements. Secondly, The Artist is to have an eye to the Nature of the part affected; for his Medicine deterging must be one degree dryer than the part: hot parts require hotter; dry dryer detergers; that fit flesh may be generated: Wherefore in moist Thus drys and begets flesh; but in dry parts it humec's and suppurates: Then if your Sarcotic be weaker than is requifite. you will perceive more plenty of matter to be generated; and the flesh will be soft and flaccid: But if it be stronger than needs; then the lips of the Ulcer will be red, inflamed dry, callous, with mordication. Thirdly, The Artist is to regard the Connexa. For a part being hotter or colder than it ought to be by Nature, is to be reduced to it's Natural temper; the air, pain, inflamation and other connexa, are also to be regarded. Fourthly, The Artist is to regard the contrariety of Indications he shall meet with: as for example; if the patient be of a moist temper, and the part affected the contrary; accordingly there is indicated to the Artist a desiccative medicament in the second or third degree; for the dryer ought to be moderate: So also ought the age, region, time of the year, constitution of the Air, &c. to be considered, as I said before.

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Now if through the neglect, or too long use of Sarcotics, and Epoulotics or Cicatricing Medicaments being omitted, there shall happen an Hypersarcosis, or Superstuous, Spungy shesh, which is a Solution of continuity complicated with magnitude augmented; you must take it away with vehement dryers, in the fourth degree; not that they are to be so in their own Nature; but in respect of the part affected; whence, to some bodies epoulotics prove catheretics: and they ought also to be sharp and deterging: Such are all kinds of Ink, Alum. Ung. Ægyptiac. &c.

Now the Artist having removed all accidents and filled the Ulcer with good flesh, he hath no more to do but to cicatrize it; that is dry it and skin it up: Which because Nature cannot perform, or regenerate another skin, by reason of it's hardness; she therefore substitutes a certain callous substance, very like the Natural skin in lieu thereof. So that your cicatrizers must be of a drying, stiptic quality; that they may absume all moifture; then they must be also of an adstringing Nature that they may contract, without manifest heat and biting; for those Medicaments with deliccate, with morfure, are convenient only for hard, ruftic, robustic, bodies, as Alum, es ustum, &c. and are of a near

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Nature

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Nature to Catheretics; which are only proper for an Hypersarcosis. I said they must be of a drying, stiptic quality, without mordication; fuch as are your Sarcotics in the first degree; and your Glutinaters in the second; and your cicatricers in the third degree do also dry; which is to be understood concerning the part affected, for to Women and Children, &c. and small wounds, milder Cicatricers will fuffice; which in other harder bodies would be only Sarcotic: ergo they must be drying and styptic, as Galla &c. the others as Alumen, Vitriolum. &c. perform this part by accident, as being of an hot, igneous Nature, and colliquate the flesh; so ought to be first burnt and wash'd indeed before the Artist use them; and then but in a small quantity: And here the Artist is to take notice that he is to use his Cicatricers before the Wound or Ulcer be altogetherequal; because Nature always generates flesh; and so his Cicatrice will be deformed; the most effectual Cicatricers that I know of are these following. Diacalcitees dissolved in the deepest red Wine, and mollifyed with ol. myrtillor. calx lota, and brought into an unquent with ol. rosaceum. Pulvis plumb, ust. and loti, is excellent to cicatrize malignant and Cancrous Ulcers. 24. Plumbi, Tutic, aris, aluminis

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ris 17115 aluminis, ustorum & lotorum, a. 313. Sang. Dracon. Zi. F. Pulvis. Or make them into an Unguent in a Mortar, with ol. rosar. & pauco aceto. Or 4. Cortic. mali granat. Thuris, a. Ziii.Gallar. Aristoloch. a. Zii. testarumo vor. calcinat. 315. croc. martis. 3i. Borac. Di. pumic. usti Dii. Coruff. Lytharg. Tutia, a. 31. Aloes, 3ii. F. pulv. S. A. or with hony and astringent wine; or with ol. myrtin. & colophonia, F. Unguent. adding Scoriam Ferri, cum Antimonio & calcitide; which are also good of themselves being dissolved in stiptic wine. Or lastly, 4. Calc. viv. Alumin. Cortic. granator. an. 3vi. thuris, gallar. a. 3iv. ceræ, olei, a. q. s. F. Unguent. s. A. This is for fordid and putrid Ulcers; having first apply'd Caro salsa porcina.

Lastly, Caustics and Escarotic medicaments burn and make crusts, absume hard and callous things in the Fleih; hot in the fourth degree; of a thick and terrene fubstance; but according to the Natures of Bodies, and staying upon the part, the fame Medicine may be called a velicatory, catheritic or escarotic: For those which are vesicantia in hard Bodies; are escharotics in foft: and those which are Catheretics in foft bodies, are epoulotics in harder: fee then of what weight the difcerning

between

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between body and body is to the young Artist in his practise. Your Caustics are made of Lapis infernalis, Sope and quick-lime, to the consistance of an Unguent spread upon lint and applyed between two Emplasters, as broad as you will have the Eschar to be.

FINIS.

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